

FIGURE 1A

[illegible]

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FIGURE 1B

	Site Eco RI																	
	E	F	N	I	S	Q	H	Q	C	V	K	K	Q	C	P	E	N	
Bac 19	GAA	TTT	AAC	ATC	TCG	CAG	CAC	CAA	TGC	GTG	AAA	AAA	CAA	TGT	CCC	GAG	AAC	
PF 19																		
			AAC	ATT	TCA	CAA	CAC	CAA	TGC	GTA	AAA	AAA	CAA	TGT	CCA	GAA	AAT	
Bac 19	S	G	C	F	R	H	L	D	E	R	E	E	C	K	C	L	L	
PF 19	TCT	GGC	TGT	TTC	AGA	CAC	TTG	GAC	GAG	AGA	GAG	GAG	TGT	AAA	TGT	CTG	CTG	
	TCT	GGA	TGT	TTC	AGA	CAT	TTA	GAT	GAA	AGA	GAA	GAA	TGT	AAA	TGT	TTA	TTA	
Bac 19	N	Y	K	Q	E	G	D	K	C	V	E	N	P	N	P	T	C	
PF 19	AAC	TAC	AAA	CAG	GAG	GGC	GAC	AAG	TGC	GTG	GAG	AAC	CCC	AAC	CCG	ACC	TGT	
	AAT	TAC	AAA	CAA	GAA	GGT	GAT	AAA	TGT	GTT	GAA	AAT	GCA	AAT	CCT	ACT	TGT	
Bac 19	N	E	N	N	G	G	C	D	A	D	A	K	C	T	E	E	D	
PF 19	AAC	GAG	AAC	AAC	GGC	GGC	TGT	GAC	GCA	GAC	GCC	AAA	TGC	ACC	GAG	GAG	GAC	
	AAC	GAA	AAT	AAT	GGT	GGA	TGT	GAT	GCA	GAT	GCC	AAA	TGT	ACC	GAA	GAA	GAT	
Bac 19	S	G	S	N	G	K	K	I	T	C	E	C	T	K	P	D	S	
PF 19	TCG	GGC	AGC	AAC	GGC	AAG	AAA	ATC	ACG	TGT	GAG	TGT	ACC	AAA	CCC	GAC	TCC	
	TCA	GGT	AGC	AAC	GGA	AAG	AAA	ATC	ACA	TGT	GAA	TGT	ACT	AAA	CCT	GAT	TCT	
Bac 19	Y	P	L	F	D	G	I	F	C	S	S	S	N	F	L	G	I	
PF 19	TAC	CCG	CTG	TTC	GAC	GGC	ATC	TTC	TGC	AGC	TCC	TCT	AAC	TTC	TTG	GGC	ATC	
	TAT	CCA	CTT	TTC	GAT	GGT	ATT	TTC	TGC	AGT	TCC	TCT	AAC	TTC	TTA	GGA	ATA	
Bac 19	S	F	L	L	I	L	M	L	I	L	Y	S	F	I	*	*		
PF 19	TGG	TTC	TTG	TTG	ATC	CTC	ATG	TTG	ATC	TTG	TAC	AGC	TTC	ATT	TAA	TAA		
	TCA	TTC	TTA	TTA	ATA	CTC	ATG	TTA	ATA	TTA	TAC	AGT	TTC	ATT				

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IP7
 ID8
 ATG AAG GCG CTA CTC TTT TTG TTC TCT TCC ATT TTT TTC GTT ACC AAA TGT
 M K A L F L F S F I F F V T K C
 CAA TGT GAA ACA GAA AGT TAT AAG CAG CTT GTA GCG AAC GTG GAC GAA TTC
 Q C E T E S Y K Q L V A N V D E F
 AAC ATC TCG CAG CAC CAA TGC GTG AAA AAA CAA TGT CCC GAG AAC TCT GGC
 N I S Q H Q C V K K Q C P E N S G
 TGT TTC AGA CAC TTG GAC GAG AGA GAG GAG TGT AAA TGT CTG CTG AAC TAC
 C F R H L D E R E E C K C L L N Y
 AAA CAG GAG GGC GAC AAG TGC GTG GAG AAC CCC AAC CCG ACC TGT AAC GAG
 K Q E G D K C V E N P N P T C N E
 AAC AAC GGC GGC TGT GAC GCA GAC GCC AAA TGC ACC GAG GAG GAC TCG GGC
 N N G G C D A D A K C T E E D S G
 AGC AAC GGC AAG AAA ATC ACG TGT GAG TGT ACC AAA CCC GAC TCG TAC CCG
 S N G K K I T C E C T K P D S Y P
 CTG TTC GAC GGC ATC TTC TGC AGC TAA TAA
 L F D G I F C S * *

FIGURE 1C

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GAA	ACA	GAA	AGT	TAT	AAG	CAG	CTT	GTA	GCC	AAC	GTG	GAC	GAA	TTC
E	T	E	S	Y	K	Q	L	V	A	N	V	D	<u>E</u>	<u>F</u>
AAC	ATC	TCG	CAG	CAC	CAA	TGC	GTG	AAA	AAA	CAA	TGT	CCC	GAG	AAC
N	I	S	Q	H	Q	C	V	K	K	Q	C	P	E	N
TGT	TTC	AGA	CAC	TTG	GAC	GAG	AGA	GAG	GAG	TGT	AAA	TGT	CTG	CTG
C	F	R	H	L	D	E	R	E	E	C	K	C	L	L
AAA	CAG	GAG	GGC	GAC	AAG	TGC	GTG	GAG	AAC	CCC	AAC	CCG	ACC	TGT
K	Q	E	G	D	K	C	V	E	N	P	N	P	T	C
AAC	AAC	GGC	GGC	TGT	GAC	GCA	GAC	GCC	AAA	TGC	ACC	GAG	GAG	GAC
N	N	G	G	C	D	A	D	A	K	C	T	E	E	D
AGC	AAC	GGC	AAG	AAA	ATC	ACG	TGT	GAG	TGT	ACC	AAA	CCC	GAC	TCG
S	N	G	K	K	I	T	C	E	C	T	K	P	D	S
CTG	TTC	GAC	GGC	ATC	TTC	TGC	AGC	TAA	TAA					
L	F	D	G	I	F	C	S	*	*					

FIGURE 1D

09134333-084498-EE4E160

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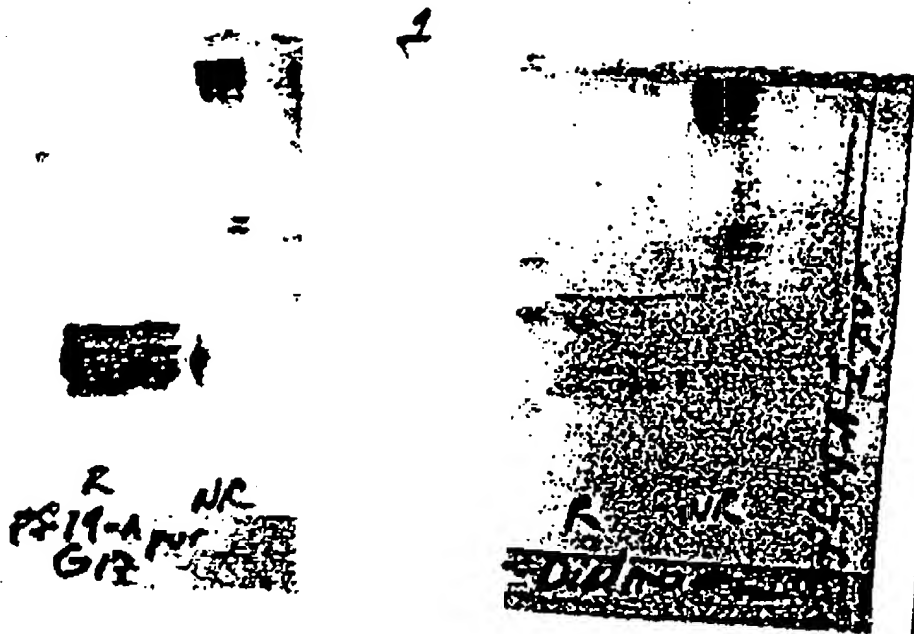


FIGURE 2

093433 08493

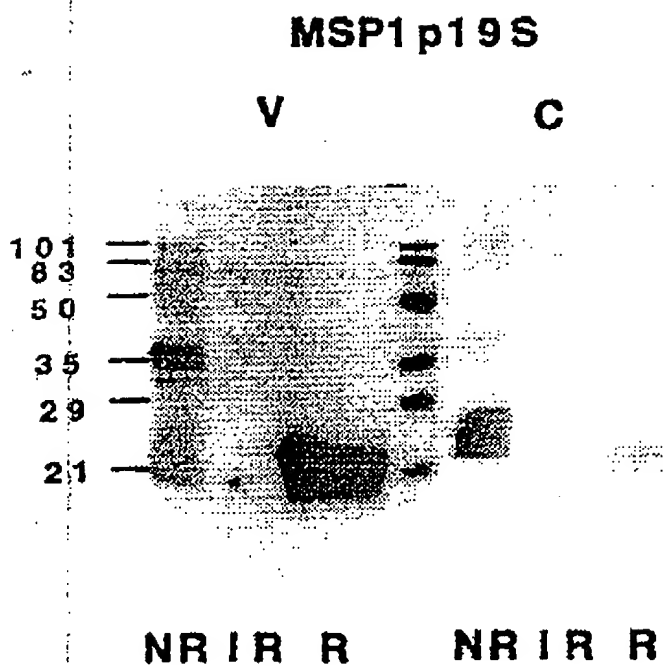


FIGURE 2B

864780" EEEET60

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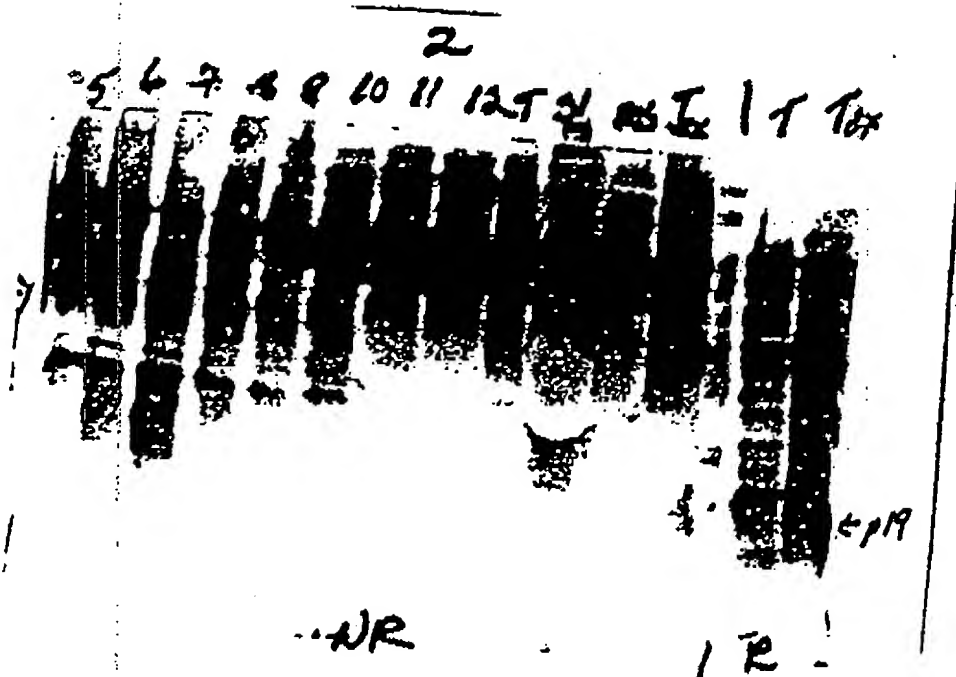


FIGURE 3

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ELISA INHIBITION BY P. VIVAX MSP-1 P42 AND P19 ANTIGENS

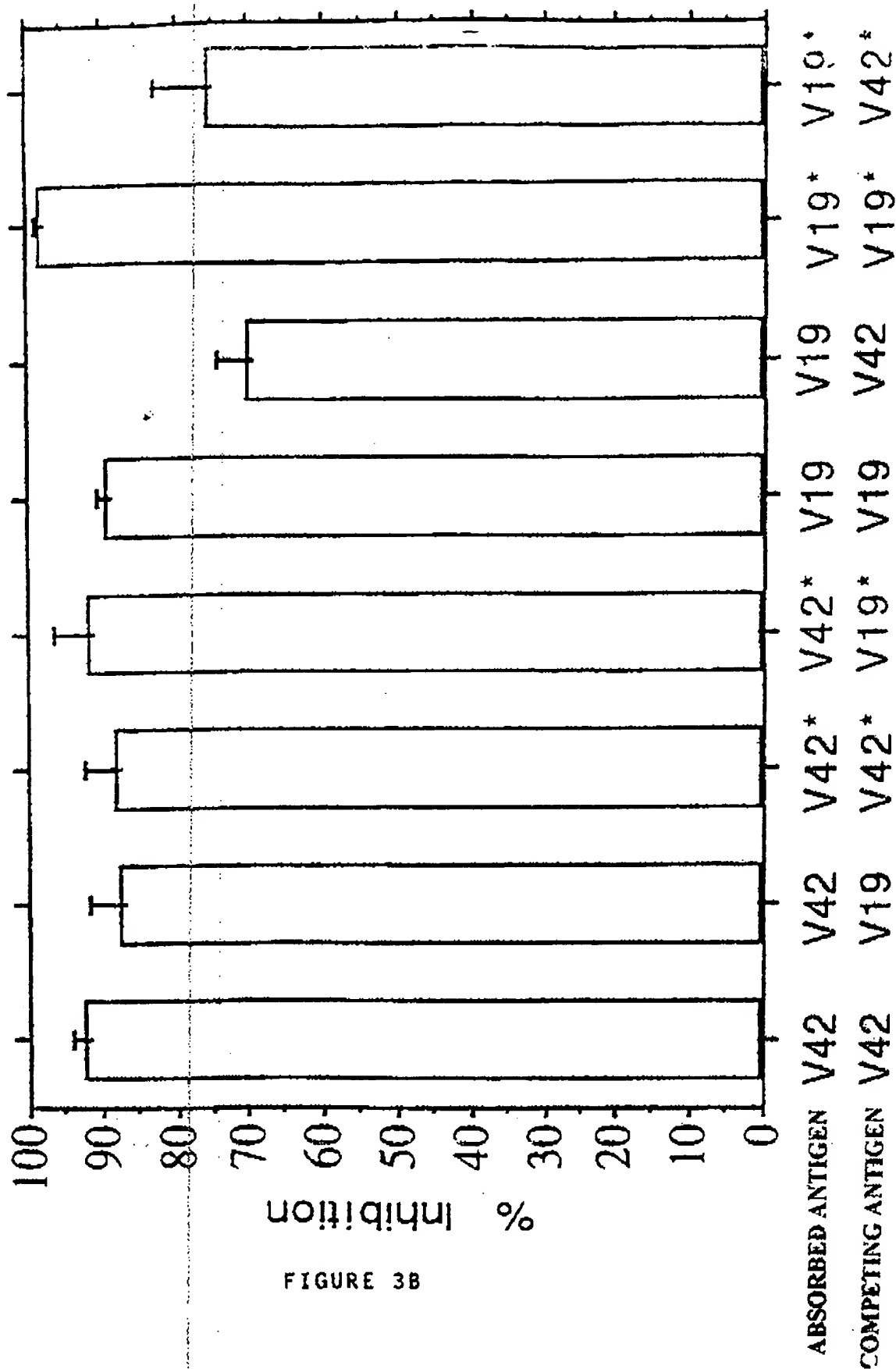


FIGURE 3B

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REGION III

KEELOKYL PF LSSIOKEYST LVNKVHSYTD TLKKT INNCO IEKKE TETIV IIKLE DYSKMD EELD VYKOSK KEDDV KSSQL LEKLM SKLI

KAELEKYL PF LNSIOKEYES LVSKVNTYTD NLKRV INNCO LEKKEAEITV KKL ODYNKMD EKLEEYKXSE KXNEVKSSQL LEKLM SKLI

KAELEKYL PF LNSIOKEYES LVSKVNTYTD NLKRV INNCO LEKKEAEITV KKL ODYNKMD EKLEEYKXSE KXNEVKSSQL LEKLM SKLI

KEL-KYLPF L-S-OKEY. LV-KV. YTD .LKK. INNCO .EKKE-E. V .KL-DY-KMD E-L..YK-S. K. VKSSQL LEKLM .SKLI

Canis lupus

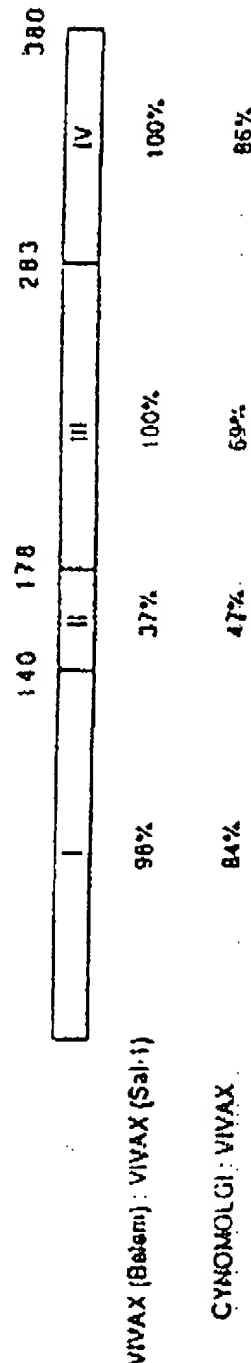
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REGION IV

MJEESKXALS ELUNVOIQOLM ~~INIS~~SEHRCIO INVPENAACY RYLDGTEEWR CLLYFKEDAG KCVPAFNMTC KDKNNGGCAPE AECKMTDSMK
K ~~ENES~~KEILS OLUNVOIQOLL ~~INIS~~SEHCICD TNVPDAAACY RYLDGTEEWR CLLTFKEEGG KCVPASNVTC KDKNNGGCAPE AECKMTDSMK
K ~~ENES~~KEILS OLUNVOIQOLL ~~INIS~~SEHCICD TNVPDAAACY RYLDGTEEWR CLLTFKEEGG KCVPASNVTC KDKNNGGCAPE AECKMTDSMK
...ESK..LS..LUNVOIQO-L..MSSEH..CICD TNVP..NAACY RYLOGITEEWR CLL..FKE..G KCVPA..N..TC KDKNNGGCAPE AECKM..D..N..

261	19
IVCKCTKEGS	EPLFEQVFC
IVCKCTKEGS	EPLFEQVFC
IVCKCTKEGS	EPLFEQVFC
IVCKCTKEGS	EPLFEQVFC



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064780" EEEET60

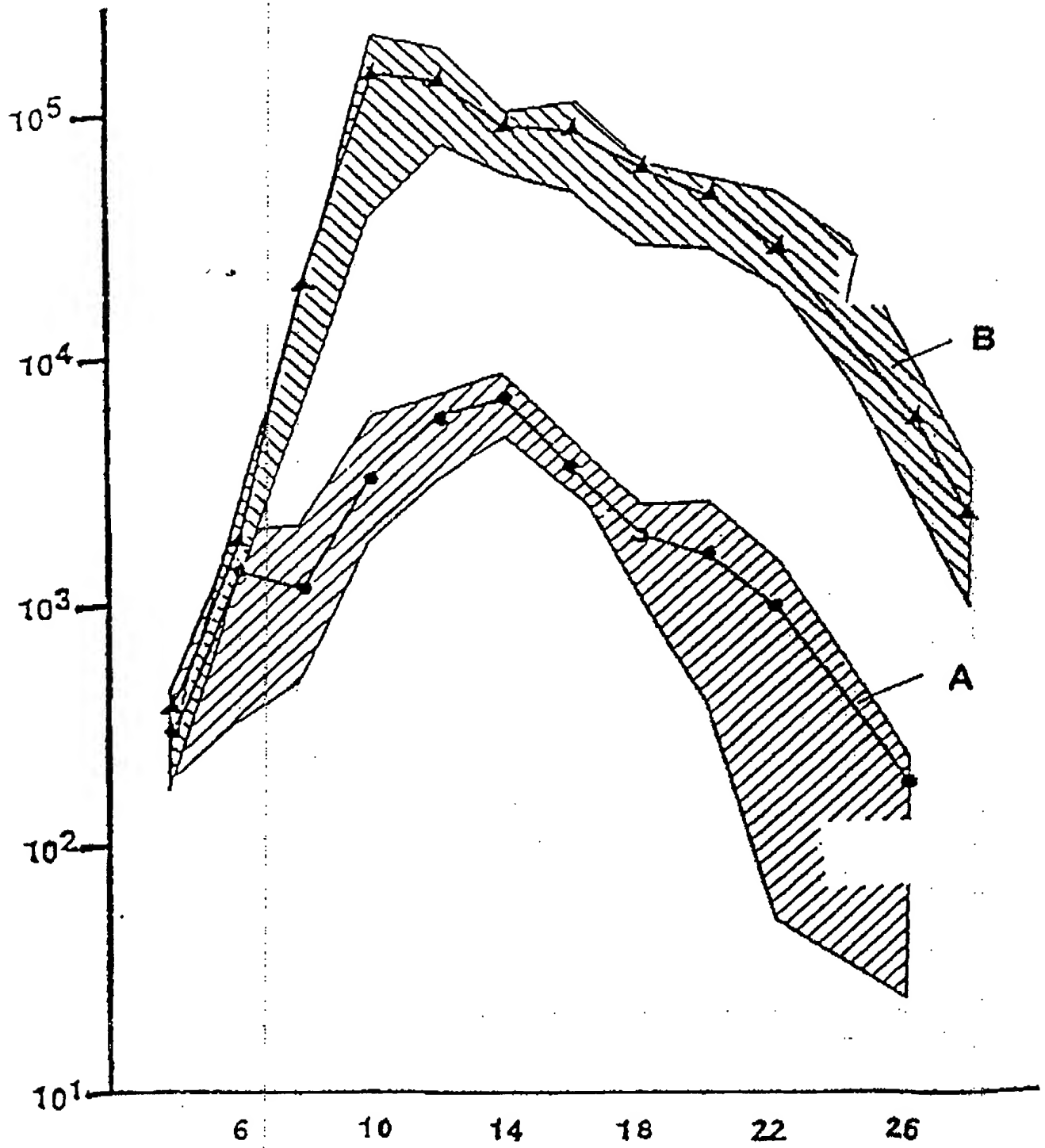


FIGURE 5

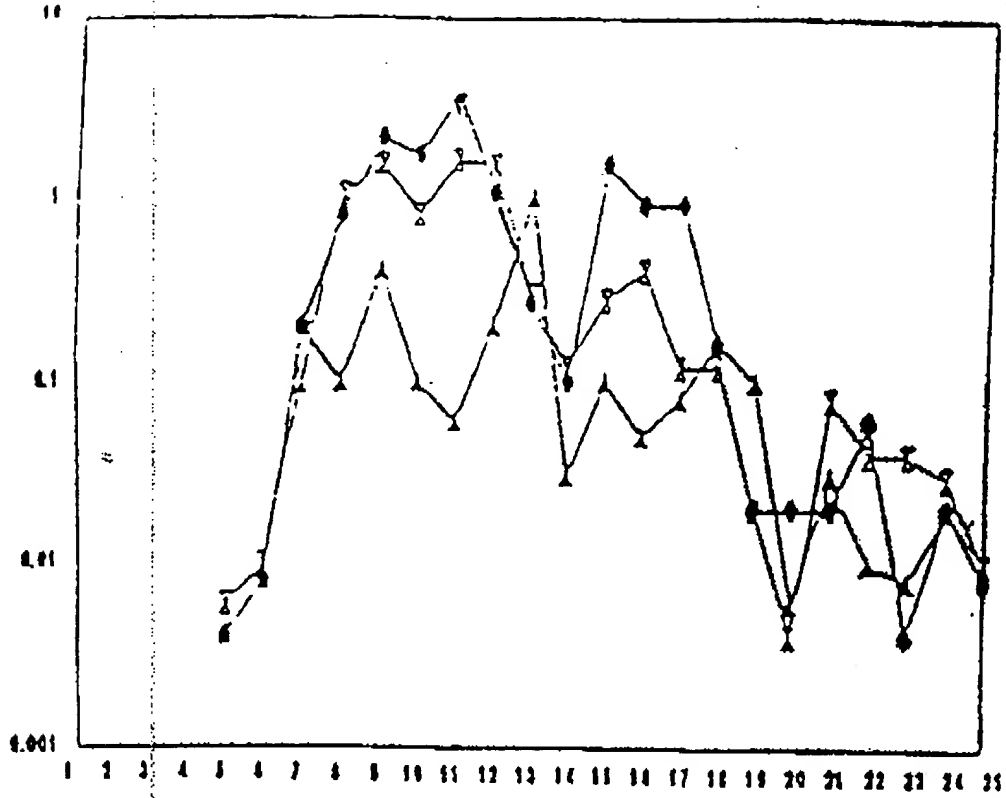


FIGURE 6A

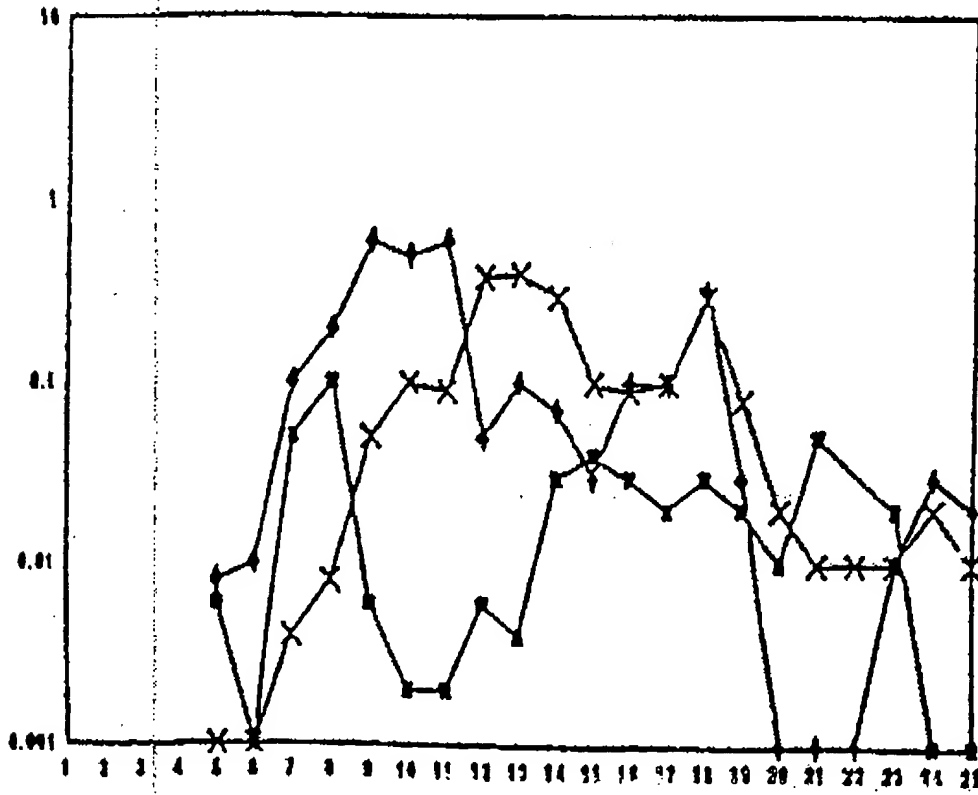


FIGURE 6B

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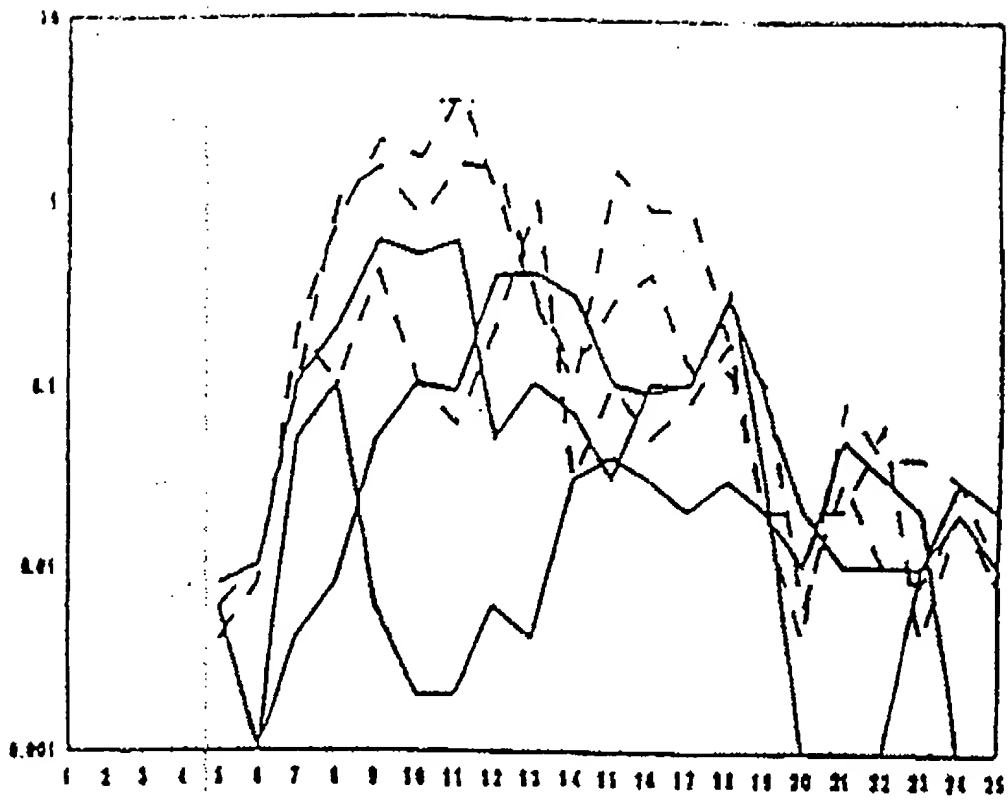


FIGURE 6C

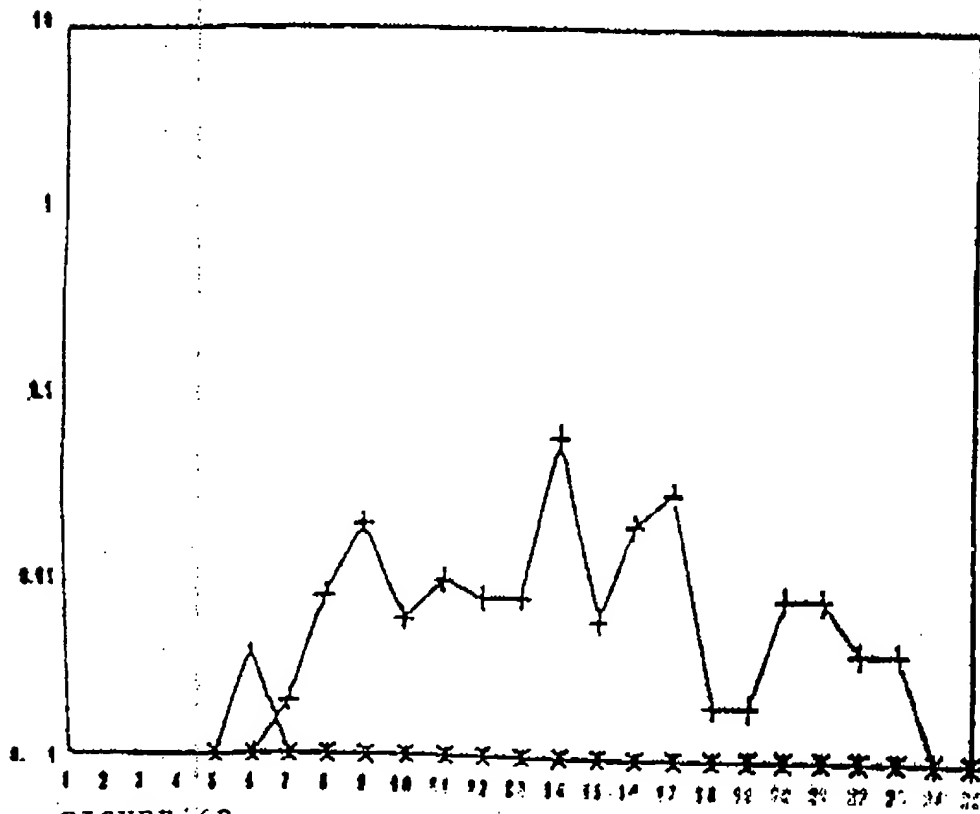


FIGURE 6D

091333 0849 864780 EEEET60

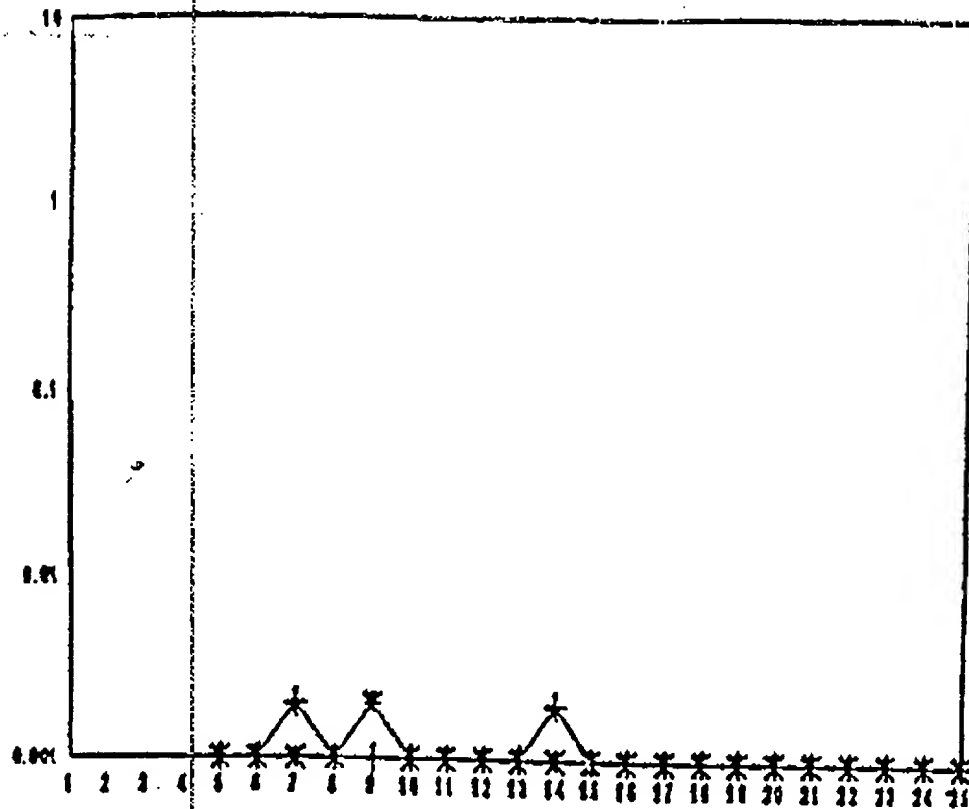


FIGURE 6E

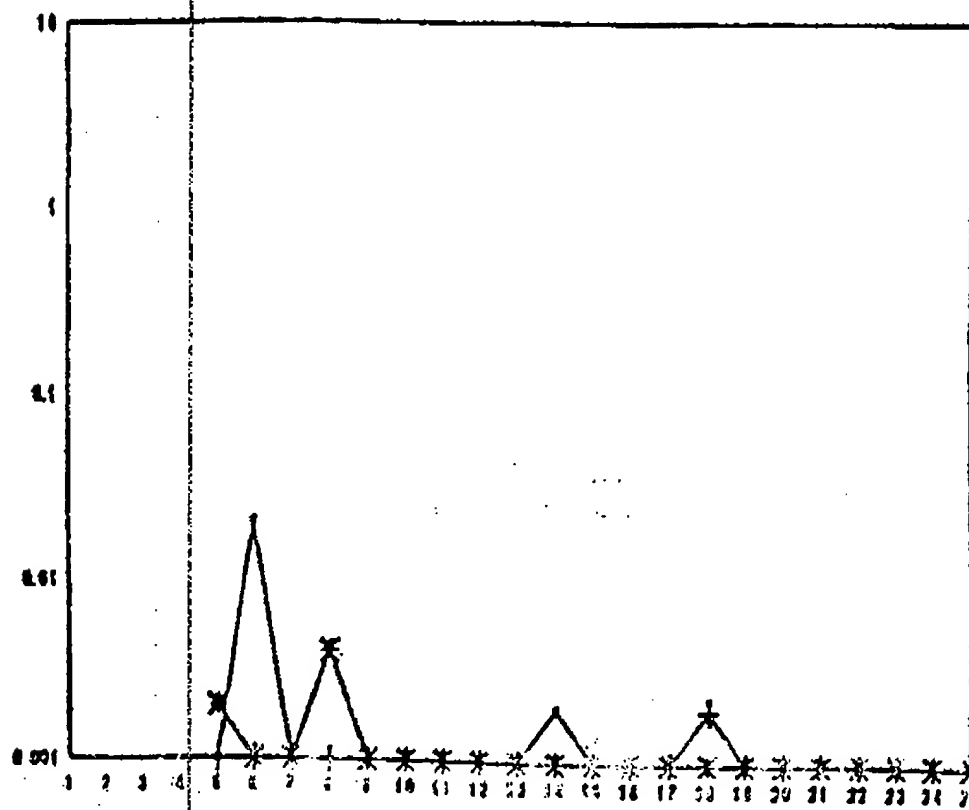


FIGURE 6F

FIGURE 6G

Year	93	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	9
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-	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---

[illegible]

Temperature	Time	Pressure	Flow Rate	Concentration	Yield	Quality	Notes
T429	-	-	-	-	-	-	-
T426	-	0.02	-	-	-	-	-
T427	-	-	0.02	-	-	-	-

[illegible]

Control	T425	0.05	0.1	0.25	0.5	1.0	2.0	4.0	8.0	16.0	32.0	64.0	128.0	256.0	512.0	1024.0	2048.0	4096.0	8192.0	16384.0	32768.0	65536.0	131072.0	262144.0	524288.0	1048576.0	2097152.0	4194304.0	8388608.0	16777216.0	33554432.0	67108864.0	134217728.0	268435456.0	536870912.0	1073741824.0	2147483648.0	4294967296.0	8589934592.0	17179869184.0	34359738368.0	68719476736.0	137438953472.0	274877906944.0	549755813888.0	1099511627776.0	2199023255552.0	4398046511104.0	8796093022208.0	17592186044416.0	35184372088832.0	70368744177664.0	140737488355328.0	281474976710656.0	562949953421312.0	1125899906842624.0	2251799813685248.0	4503599627370496.0	9007199254740992.0	18014398509481984.0	36028797018963968.0	72057594037927936.0	144115188075855872.0	288230376151711744.0	576460752303423488.0	1152921504606846976.0	2305843009213693952.0	4611686018427387904.0	9223372036854775808.0	18446744073709551616.0	36893488147419103232.0	73786976294838206464.0	147573952589676412928.0	295147905179352825856.0	590295810358705651712.0	1180591620717411303424.0	2361183241434822606848.0	4722366482869645213696.0	9444732965739290427392.0	18889465931478580854784.0	37778931862957161709568.0	75557863725914323419136.0	151115727451828646838272.0	302231454903657293676544.0	604462909807314587353088.0	1208925819614629174706176.0	2417851639229258349412352.0	4835703278458516698824704.0	9671406556917033397649408.0	19342813113834066795298816.0	38685626227668133590597632.0	77371252455336267181195264.0	154742504910672534362390528.0	309485009821345068724781056.0	618970019642690137449562112.0	1237940039285380274899124224.0	2475880078570760549798248448.0	4951760157141521099596496896.0	9903520314283042199192993792.0	19807040628566084398385987584.0	39614081257132168796771975168.0	79228162514264337593543950336.0	158456325028528675187087900672.0	316912650057057350374175801344.0	633825300114114700748351602688.0	1267650600228229401496703205376.0	2535301200456458802993406410752.0	5070602400912917605986812821504.0	10141204801825835211973625643008.0	20282409603651670423947251286016.0	40564819207303340847894502572032.0	81129638414606681695789005144064.0	162259276829213363391578010288128.0	324518553658426726783156020576256.0	649037107316853453566312041152512.0	1298074214633706907132624082305024.0	2596148429267413814265248164610048.0	5192296858534827628530496329220096.0	10384593717069655257060992658440192.0	20769187434139310514121985316880384.0	41538374868278621028243970633760768.0	83076749736557242056487941267521536.0	166153499473114484112975882535043072.0	332306998946228968225951765070086144.0	664613997892457936451903530140172288.0	1329227995784915872903807060280344576.0	2658455991569831745807614120560689152.0	5316911983139663491615228241121378304.0	10633823966279326983230456482242756608.0	21267647932558653966460912964485513216.0	42535295865117307932921825928971026432.0	85070591730234615865843651857942052864.0	170141183460469231731687303715884105728.0	340282366920938463463374607431768211456.0	680564733841876926926749214863536422912.0	1361129467683753853853498429727072845824.0	272225893536750770770699685945414569152.0	544451787073501541541399371890829138304.0	1088903574147003083082798743781658276608.0	2177807148294006166165597487563316553216.0	4355614296588012332331194975126633106432.0	8711228593176024664662389950253266212864.0	17422457186352049329324779900506532425728.0	348449143727040
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T637	.004	.008	.02	.01	.01	.006	.02	1.9	.003	.01	.005	.008	.17
T440	.008	.03	.03	.004	.15	.18	2.6	1.5	.03	.012	.038	.04	.012
T441	.004	.008	.02	.05	.21	1.7	1.0	1.04	.027	.01	1.5	.09	.09

— \square — Absence of parasites in 400 microscopic fields

864T80" EEE4ET60

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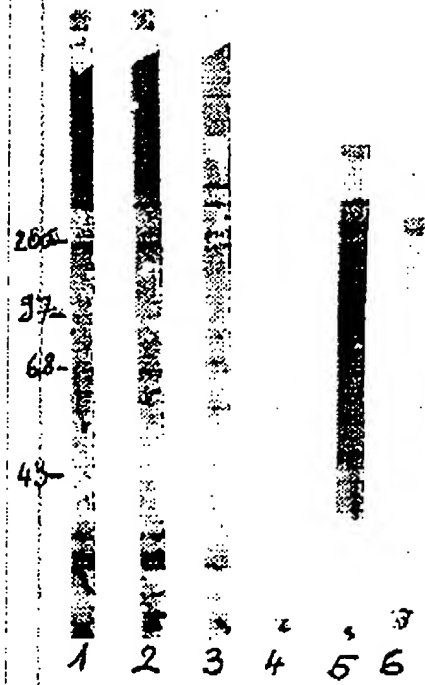


FIGURE 7

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864T80" EEE4ET60

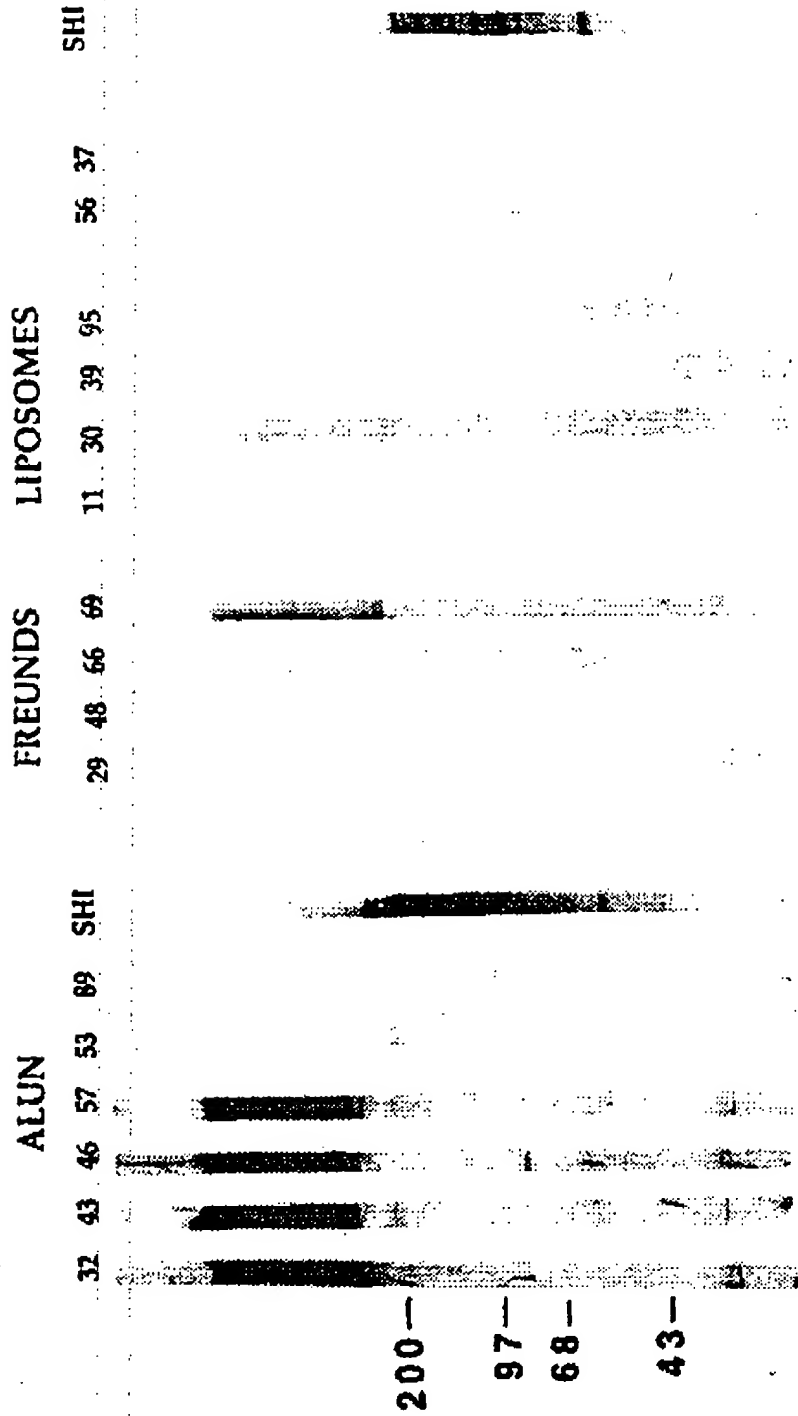
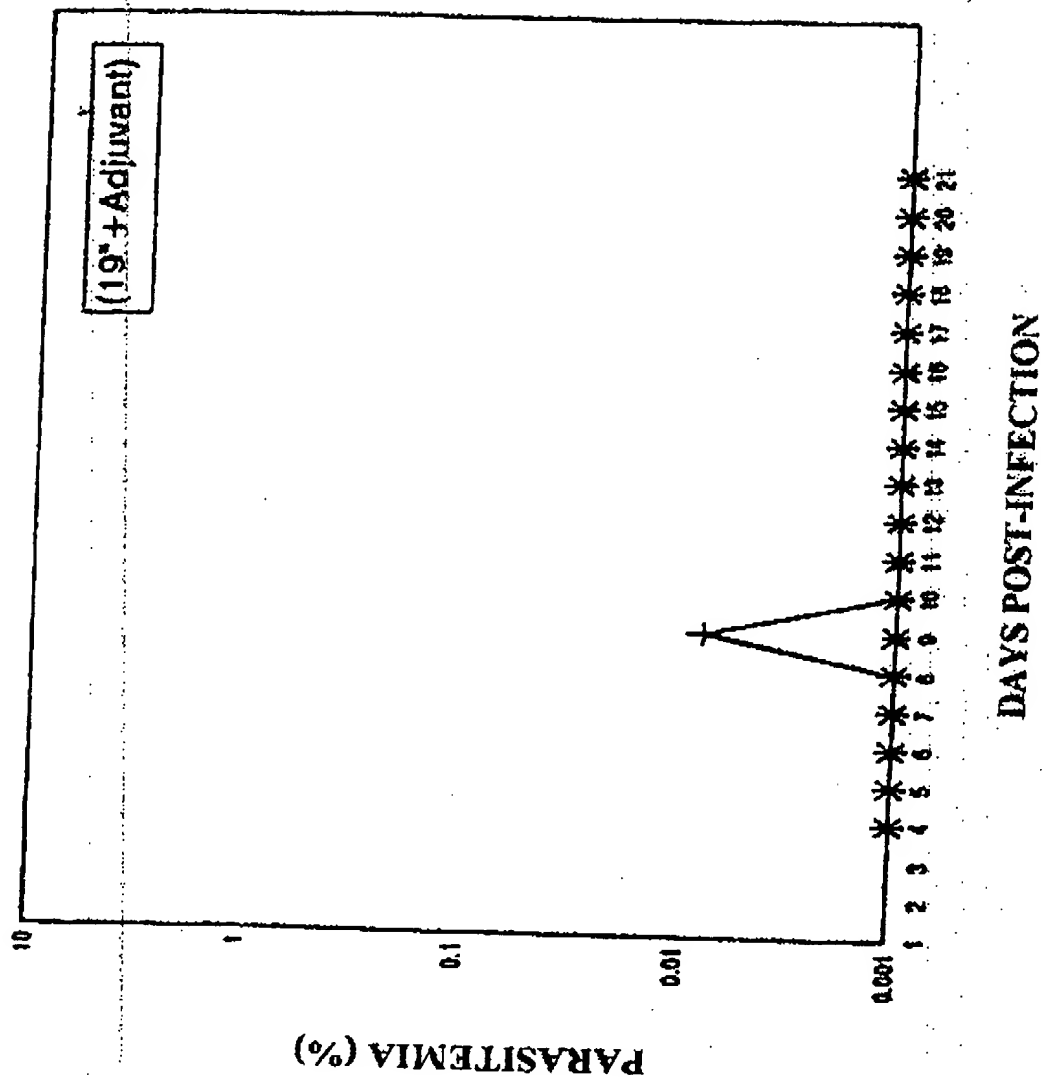


FIGURE 78

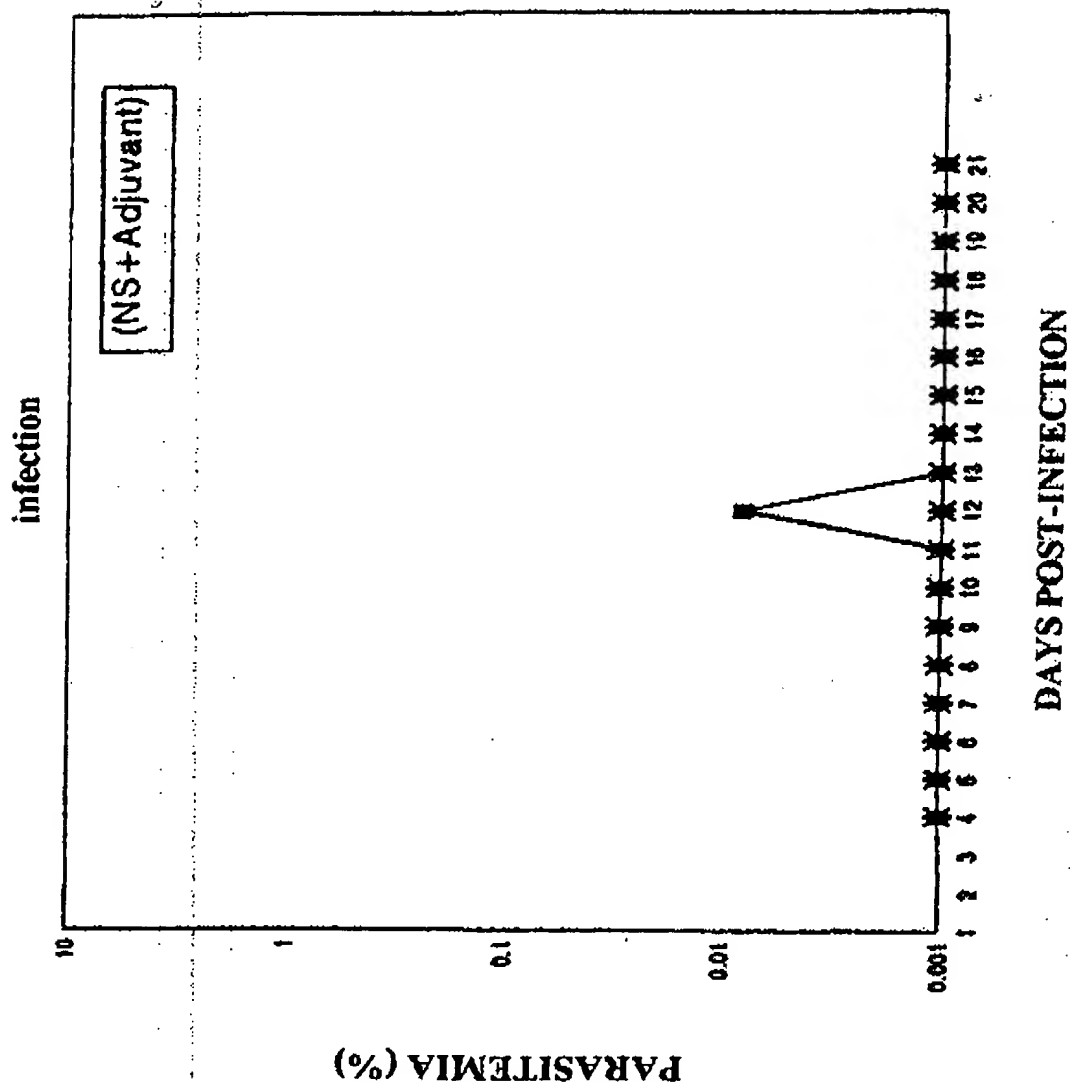
Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the *Macaca sinica* toque
macaque; second challenge infection

FIGURE 8A



Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the *Macaca sinica* toque macaque; second challenge

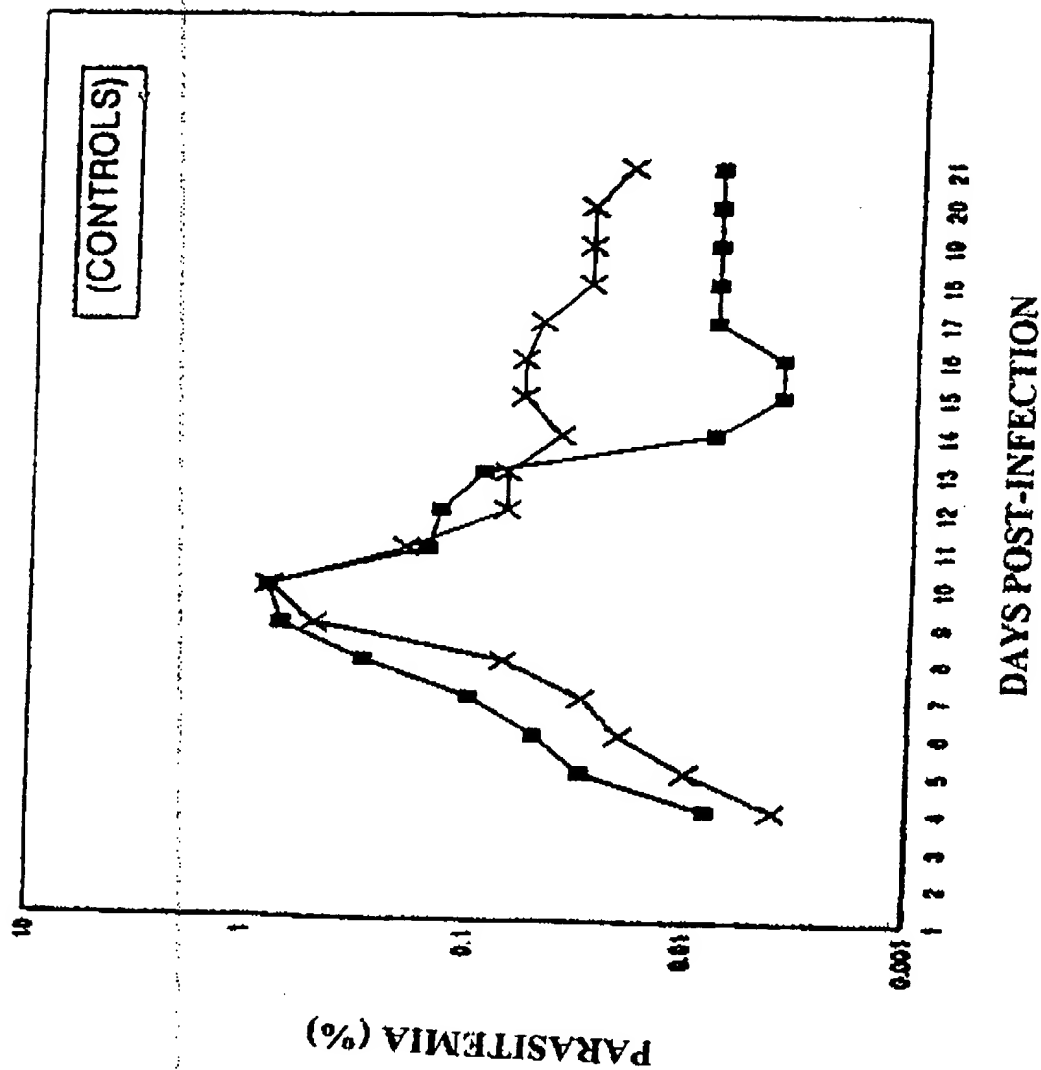
FIGURE 8B



Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the *Macaca sinica* toque macaque; second challenge infection

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FIGURE 8C



Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the
Macaca sinica toque macaque; second challenge infection

Year	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Month	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Days post-infection	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Days after challenge	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Vaccination p19																		
T 426	-	-	-	-	-	.008	-	-	-	-	-	-	-	-	-	-	-	-
T 427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T 429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Controls Physiological water PCA/FIA																		
T 436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T 425	-	-	-	-	-	-	-	-	.008	-	-	-	-	-	-	-	-	-
T 438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Controls Non vaccinated																		
T 448	.008	.03	.05	0.1	0.3	0.7	0.8	.16	.14	.09	.008	.004	.004	.008	.008	.008	.008	.008
T 449	.004	.01	.02	.03	0.07	0.5	0.8	0.2	.07	.07	.04	.06	.06	.05	.03	.03	.03	.02

- = Absence of parasites in 400 microscopic fields

FIGURE 80

064780-EE4E160

FIGURE 9A

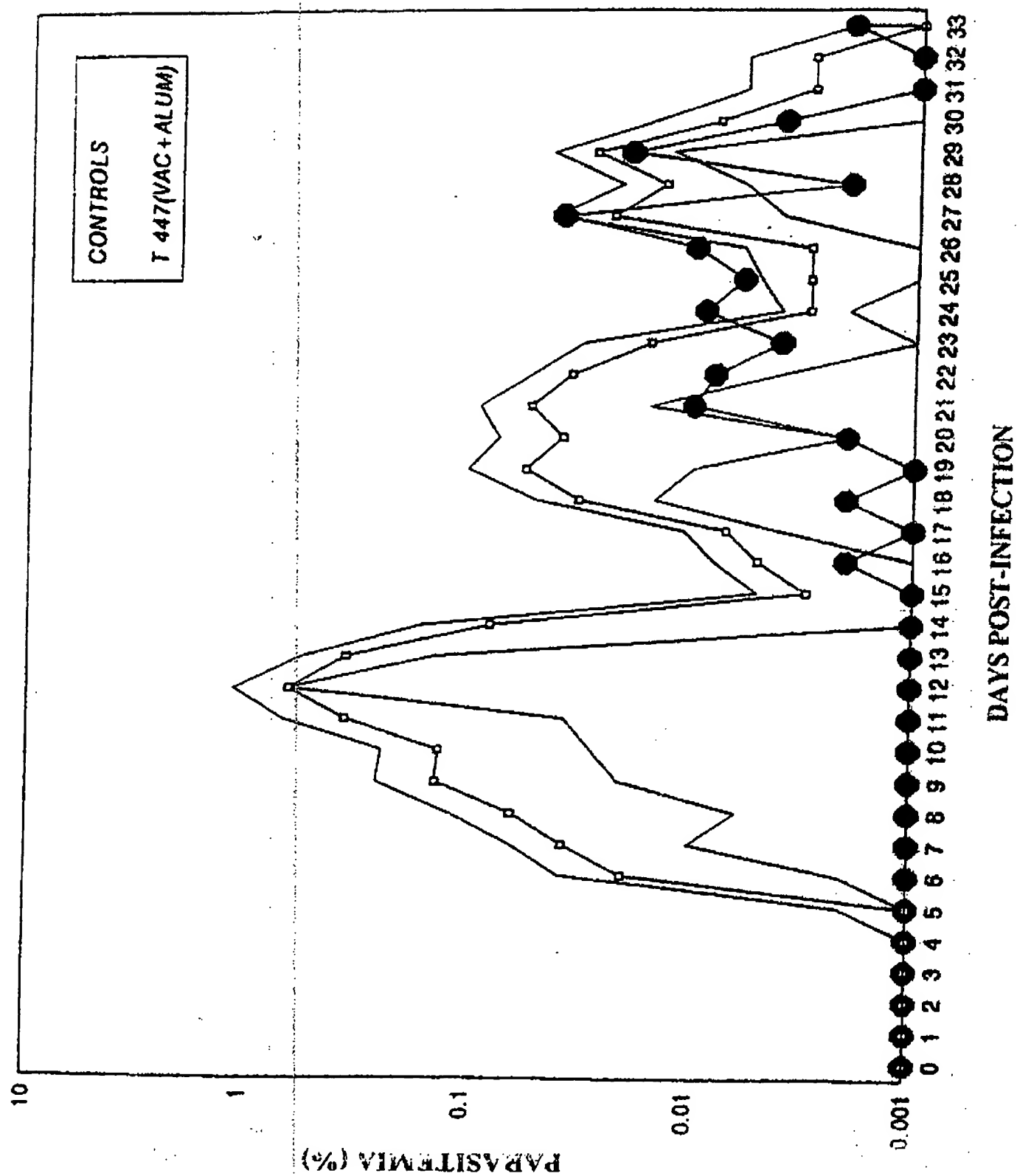


FIGURE 9B

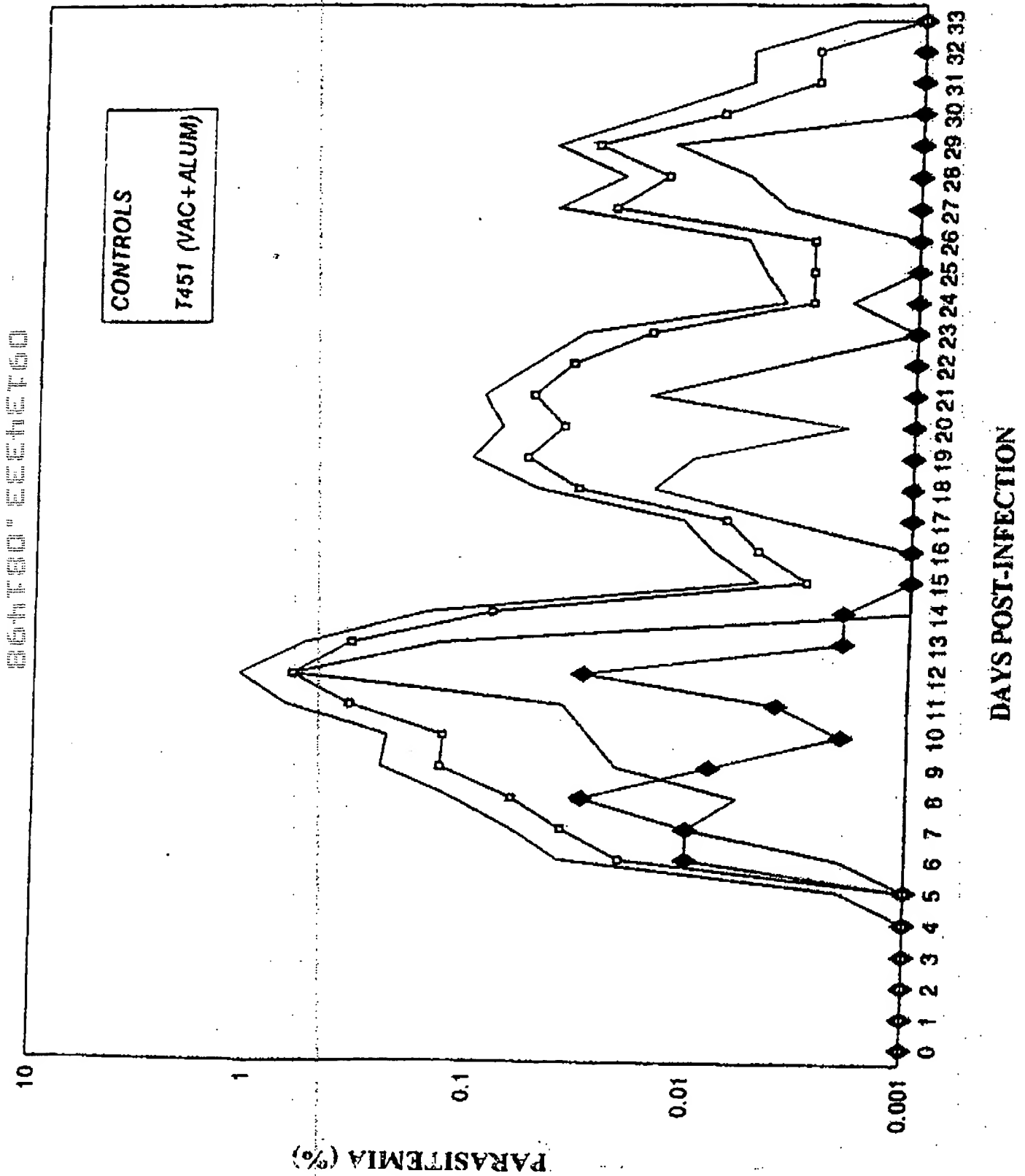


FIGURE 9C

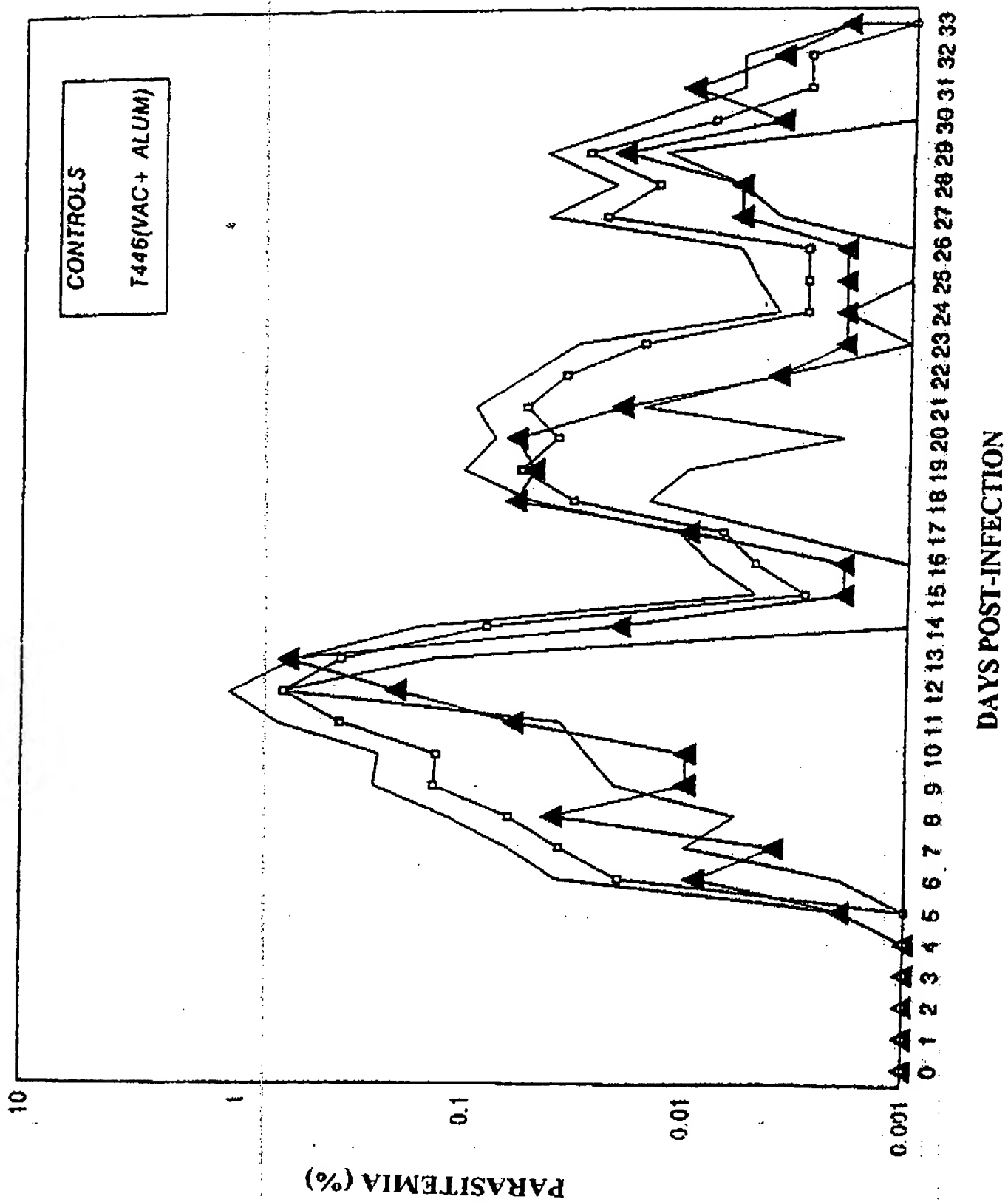
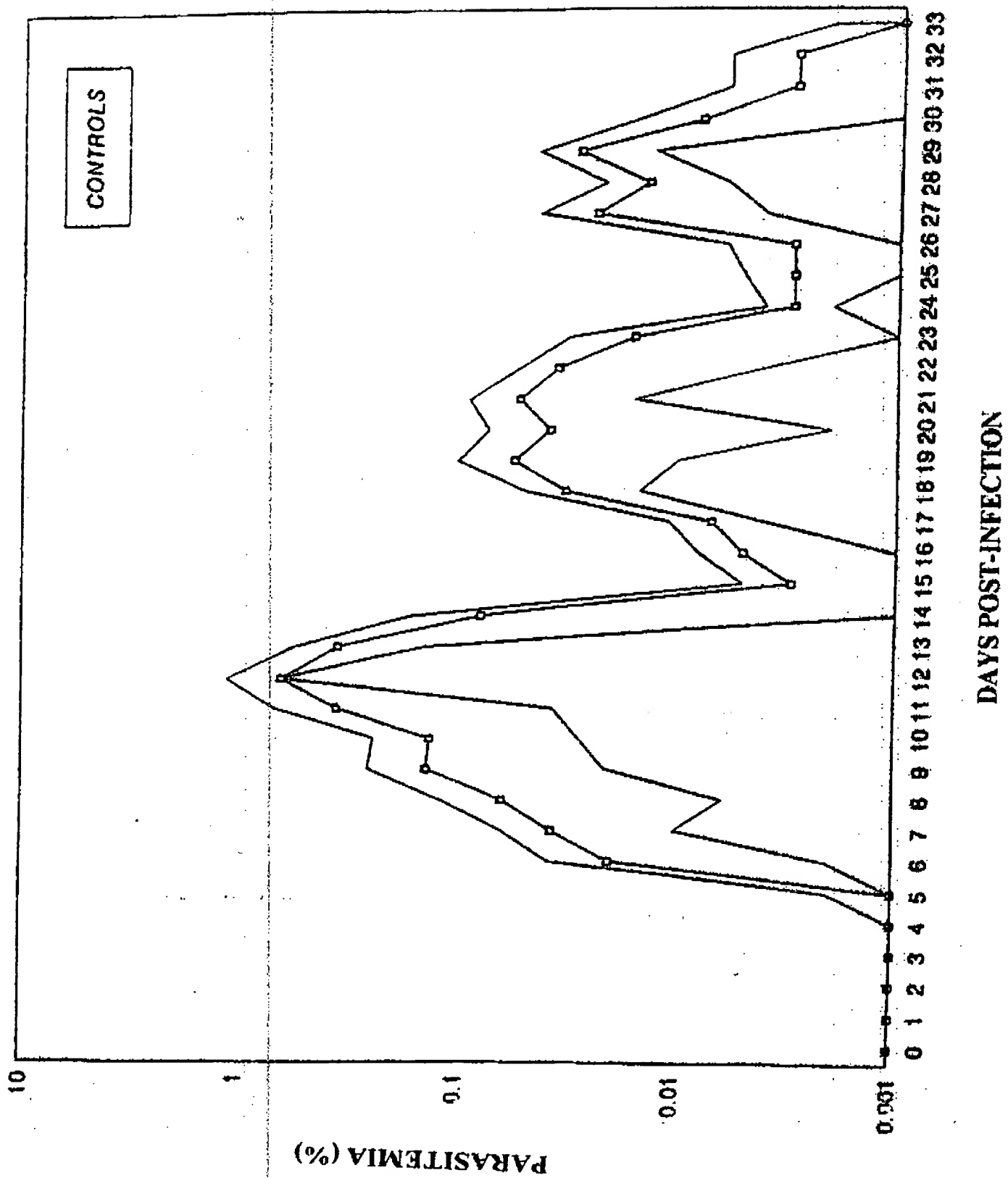


FIGURE 90



Vaccination test: *P. cynomolgi*/toque macaque with MSP-1 p19 of *P.*

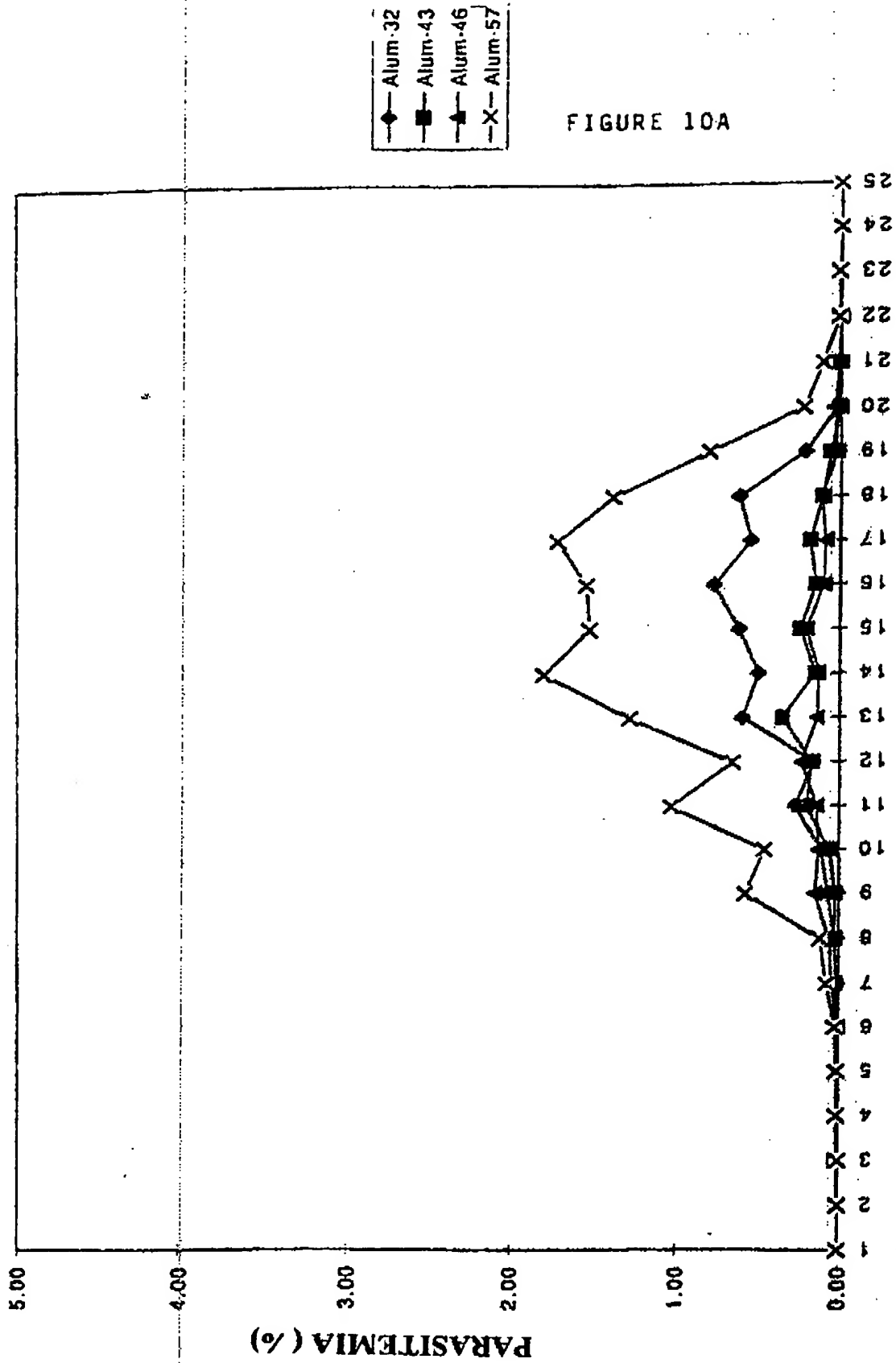
cytology in atom

[illegible]

FIGURE 9E

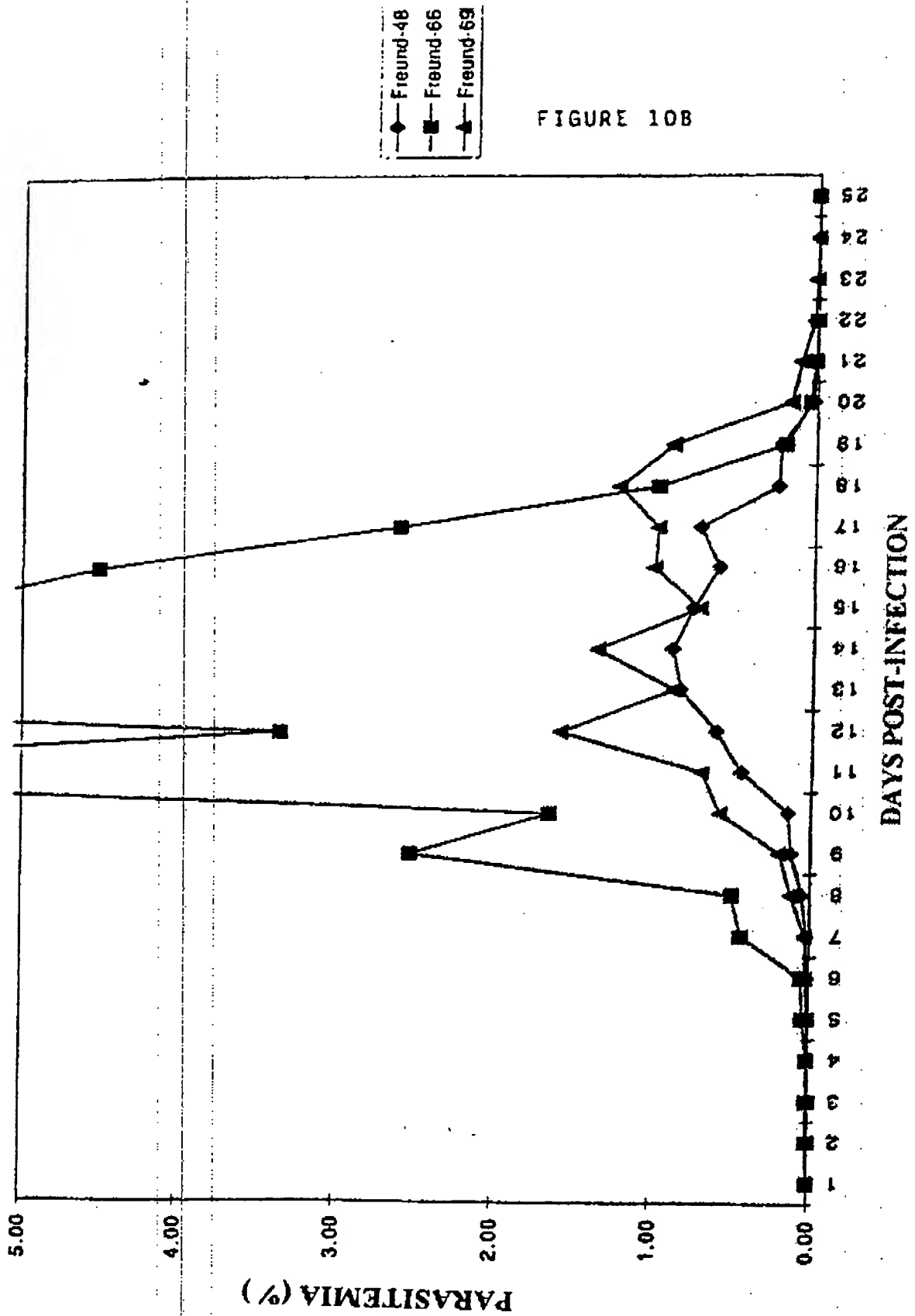
— negative for parasites in 400 microscopic fields

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
 SCIUREUS SQUIRREL MONKEY
 MSP-1 p19 VACCINATION WITH ALUM

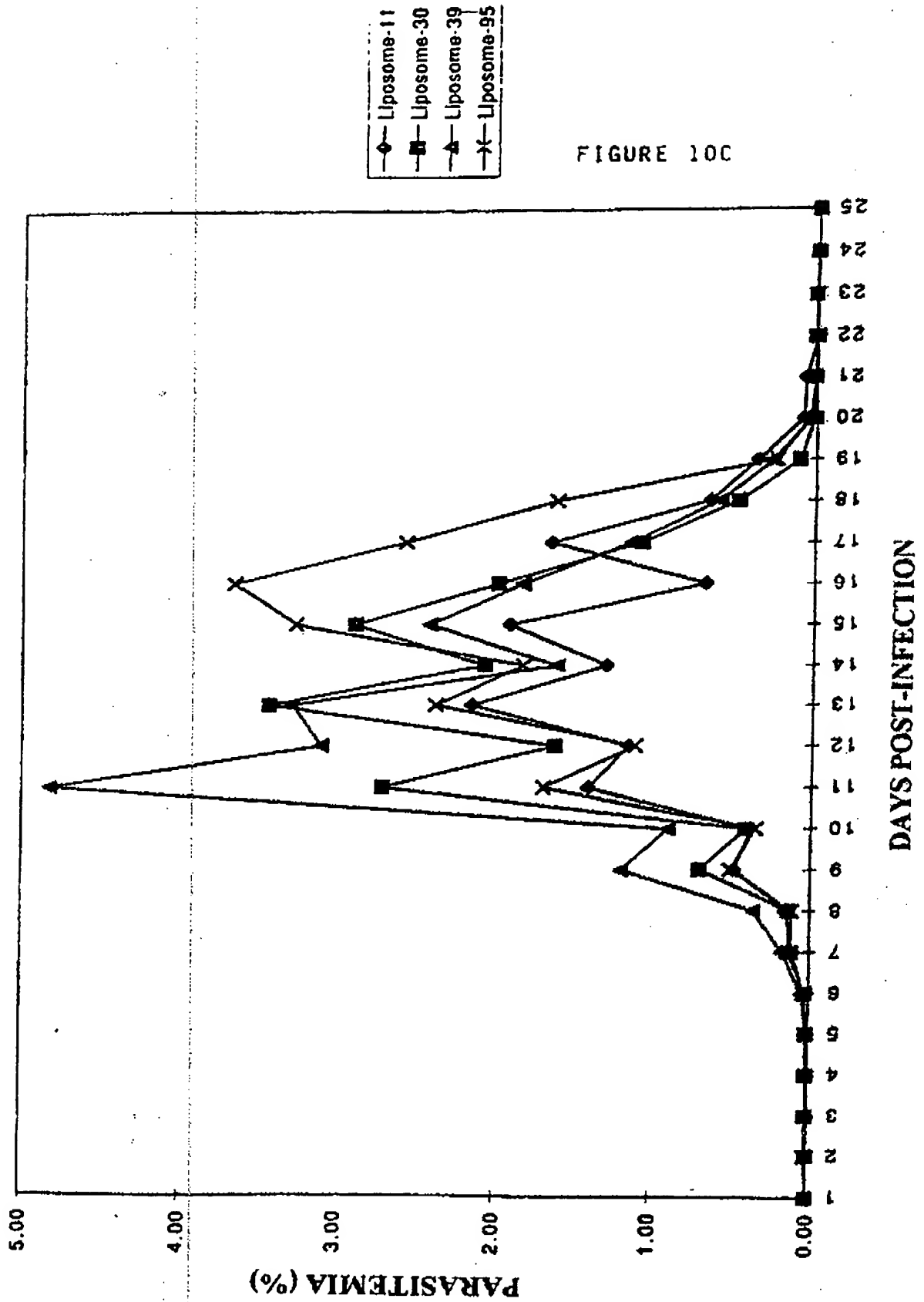


PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUREUS SQUIRREL MONKEY

MSP-1 p19 VACCINATION WITH FREUNDS



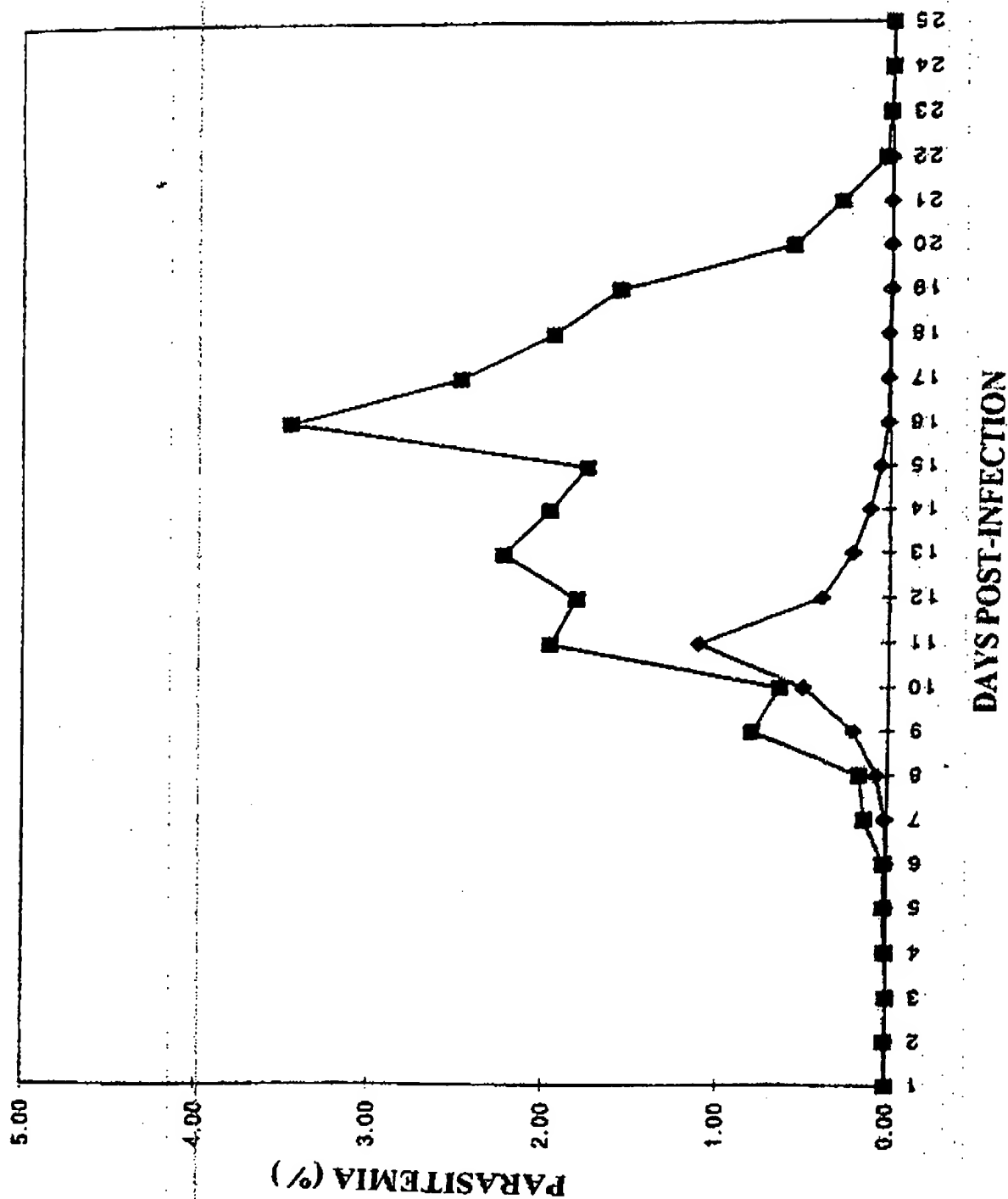
PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUREUS SQUIRREL MONKEY
MSP-1 p19 VACCINATION WITH LIPOSOMES



PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI

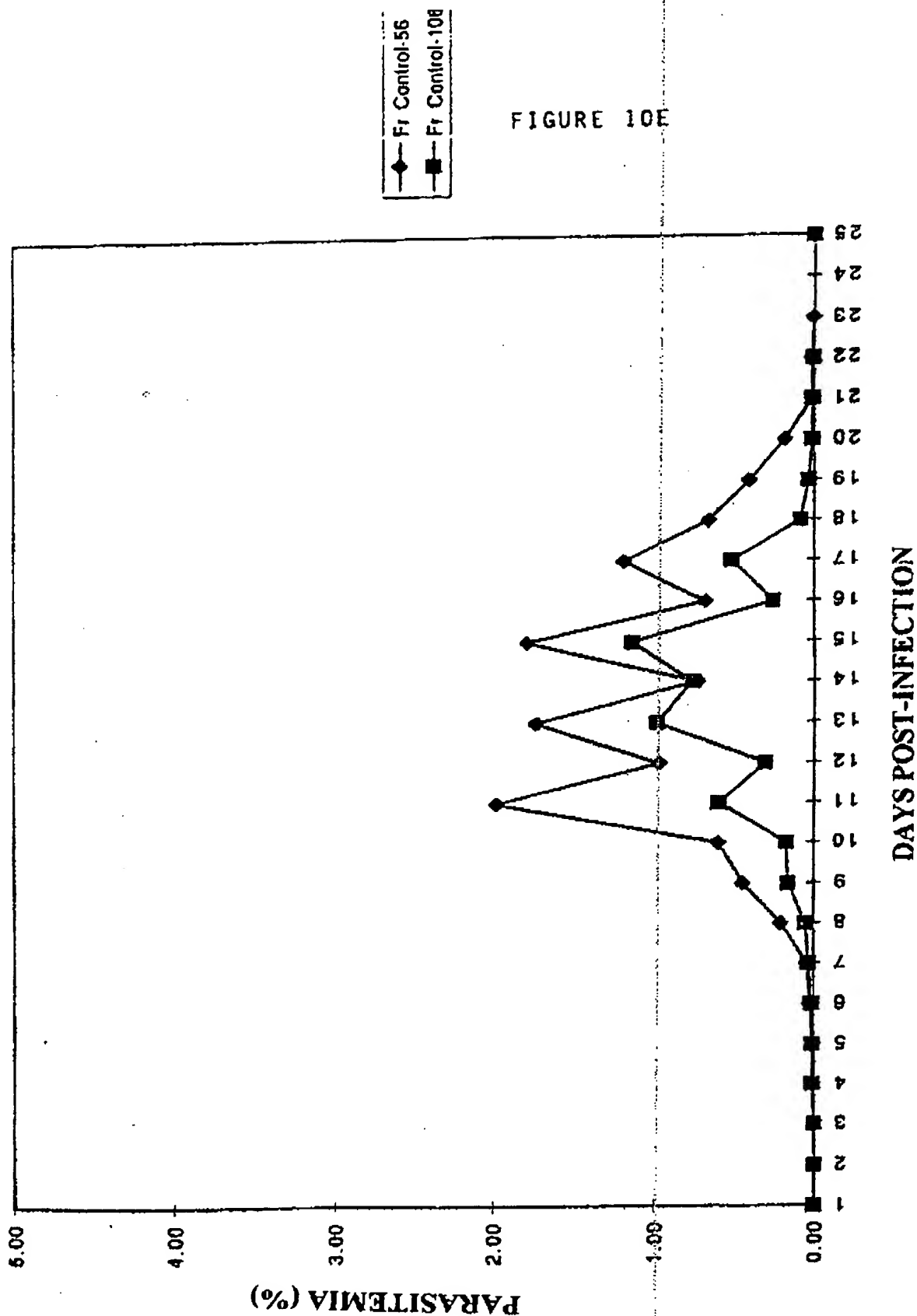
SCIUREUS SQUIRREL MONKEY

ALUM CONTROL



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FIGURE 10E



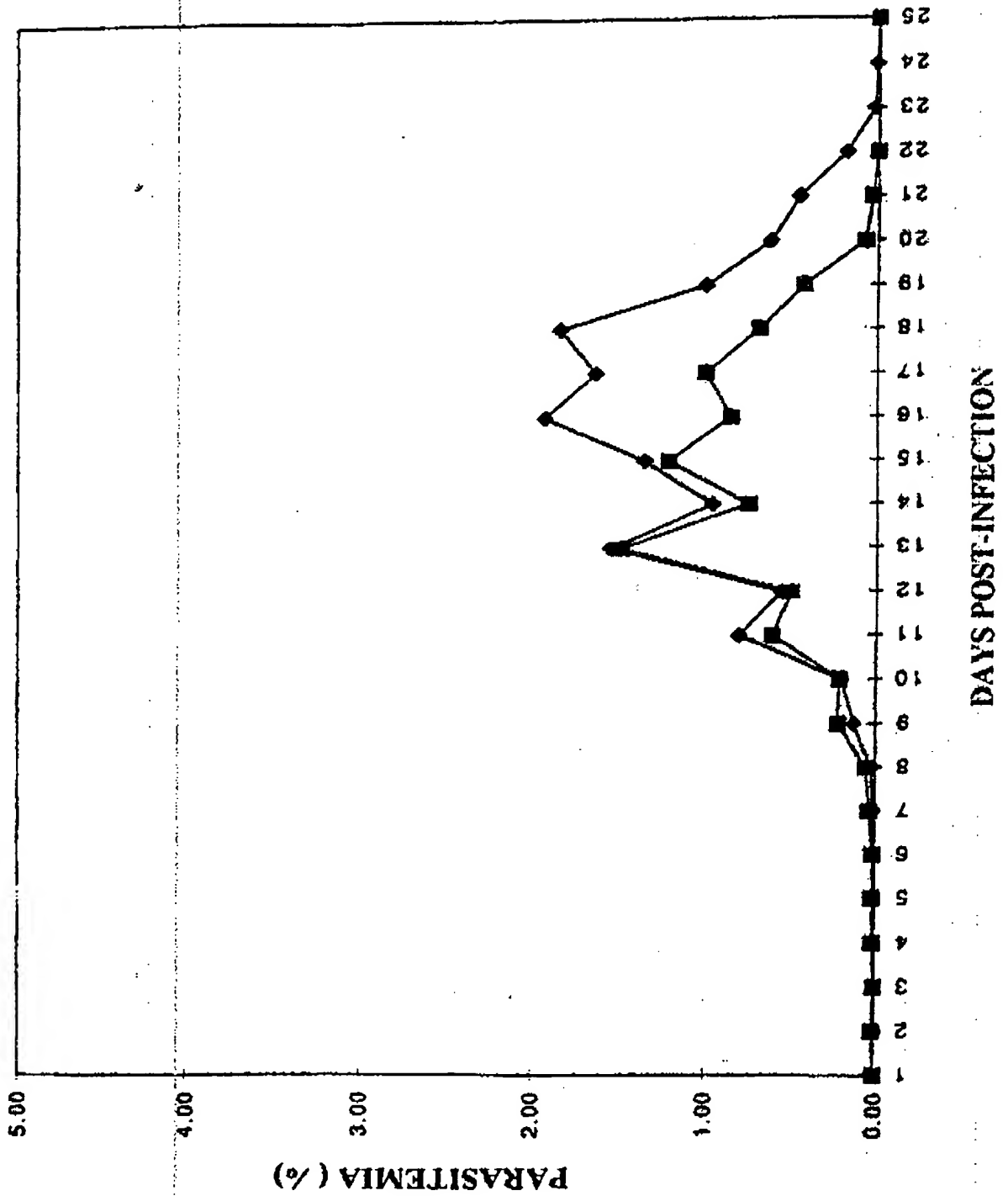
PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI

SCIUREUS SQUIRREL MONKEY

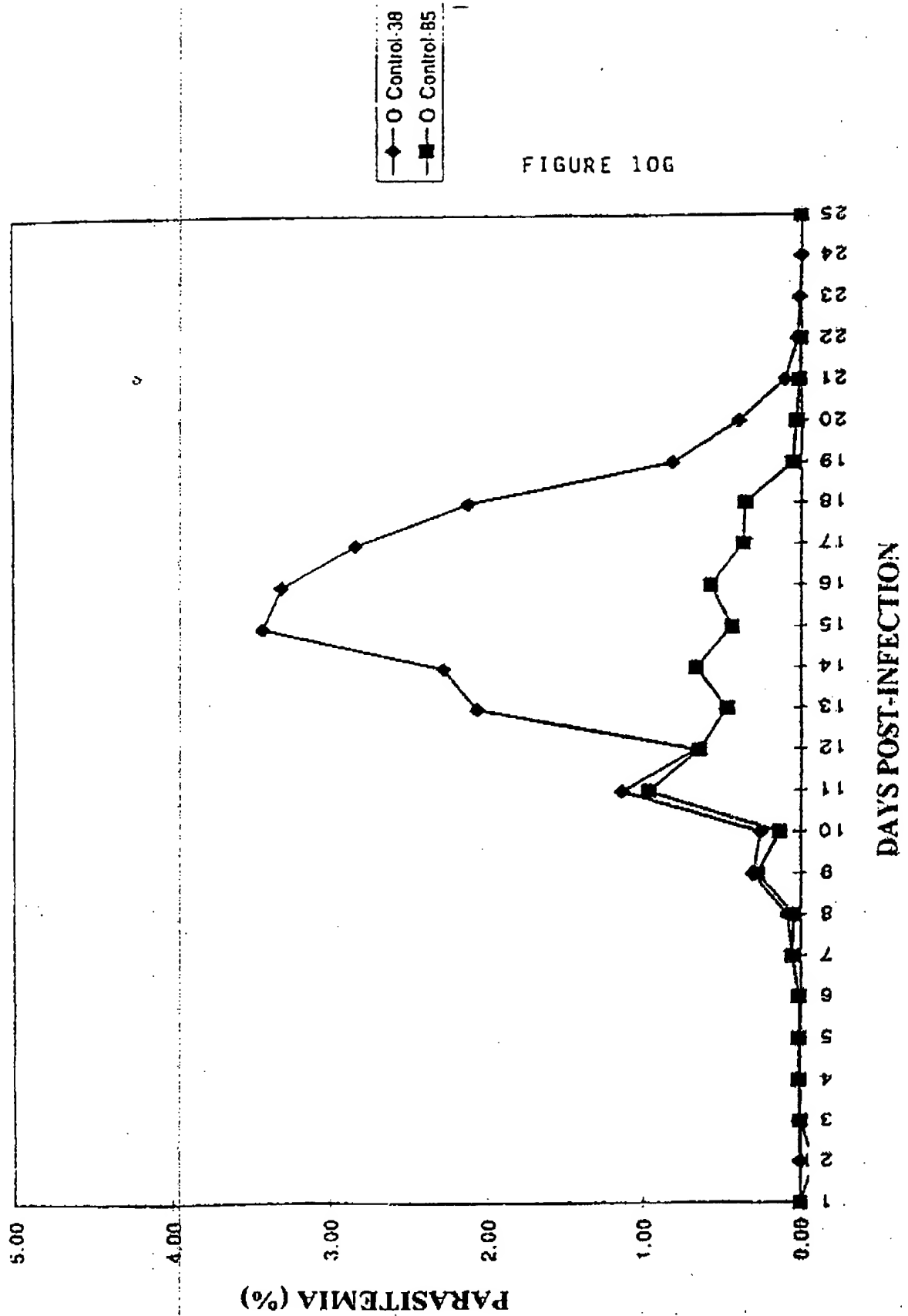
LIPOSOME CONTROL

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FIGURE 10F



PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUREUS SQUIRREL MONKEY
PHYSIOLOGICAL WATER CONTROL



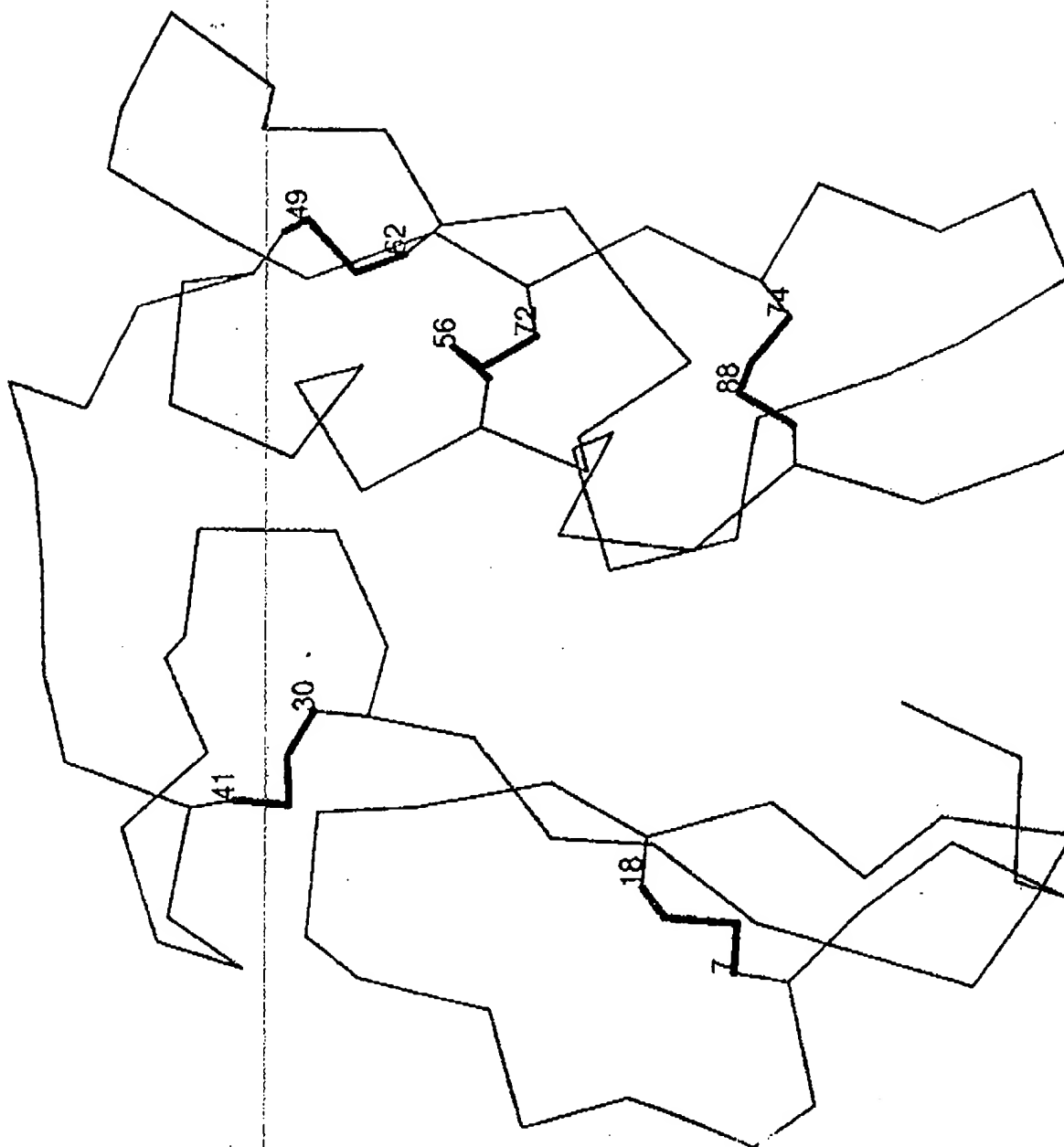


Figure 11A: Backbone of MSP1(19) showing disulfide bridges in bold line

B64T80" EETHET60

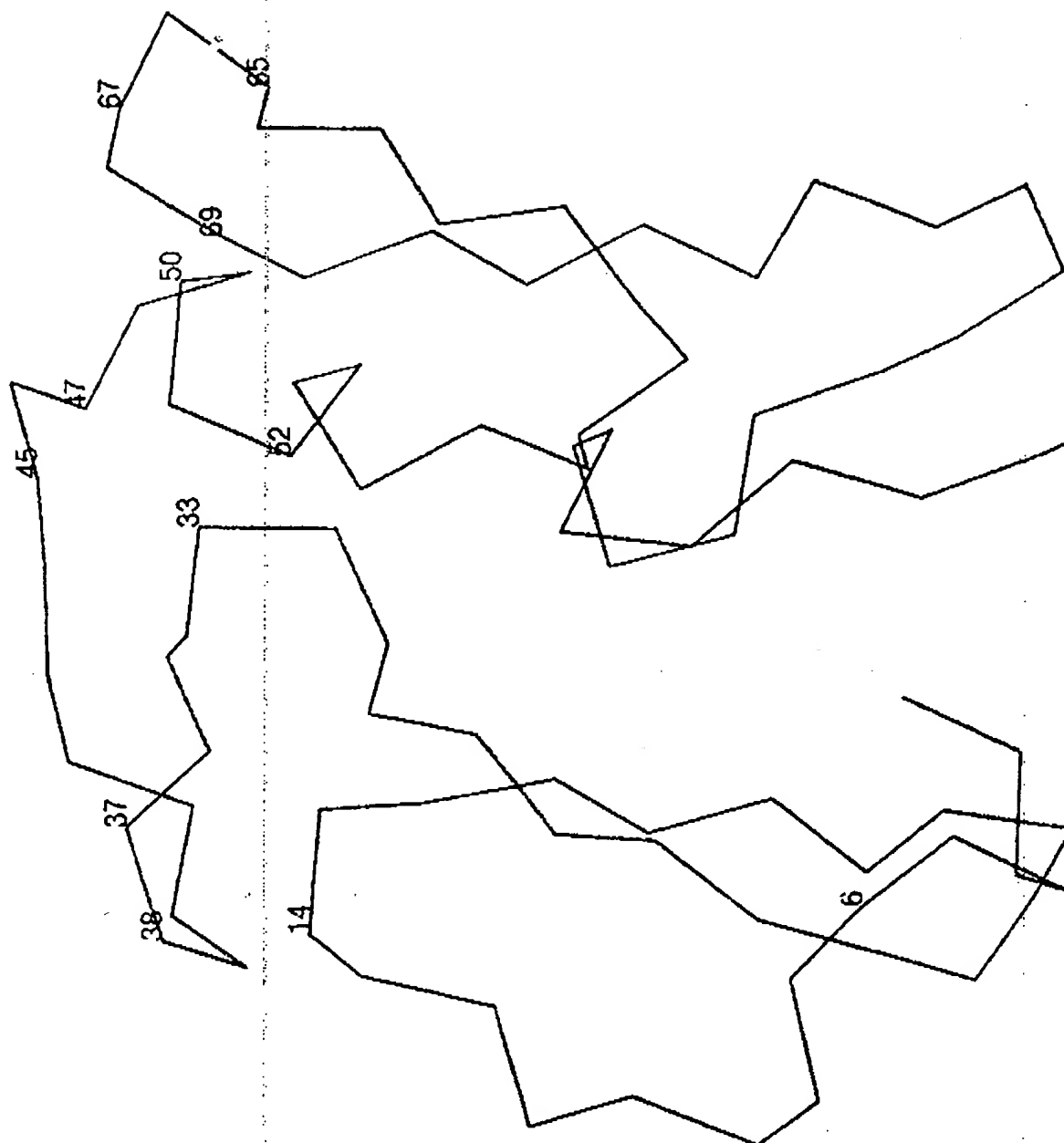


Figure 11B: Backbone of MSP1(19) showing positions of sequence differences between *P. cynomolgi* and *P. vivax*

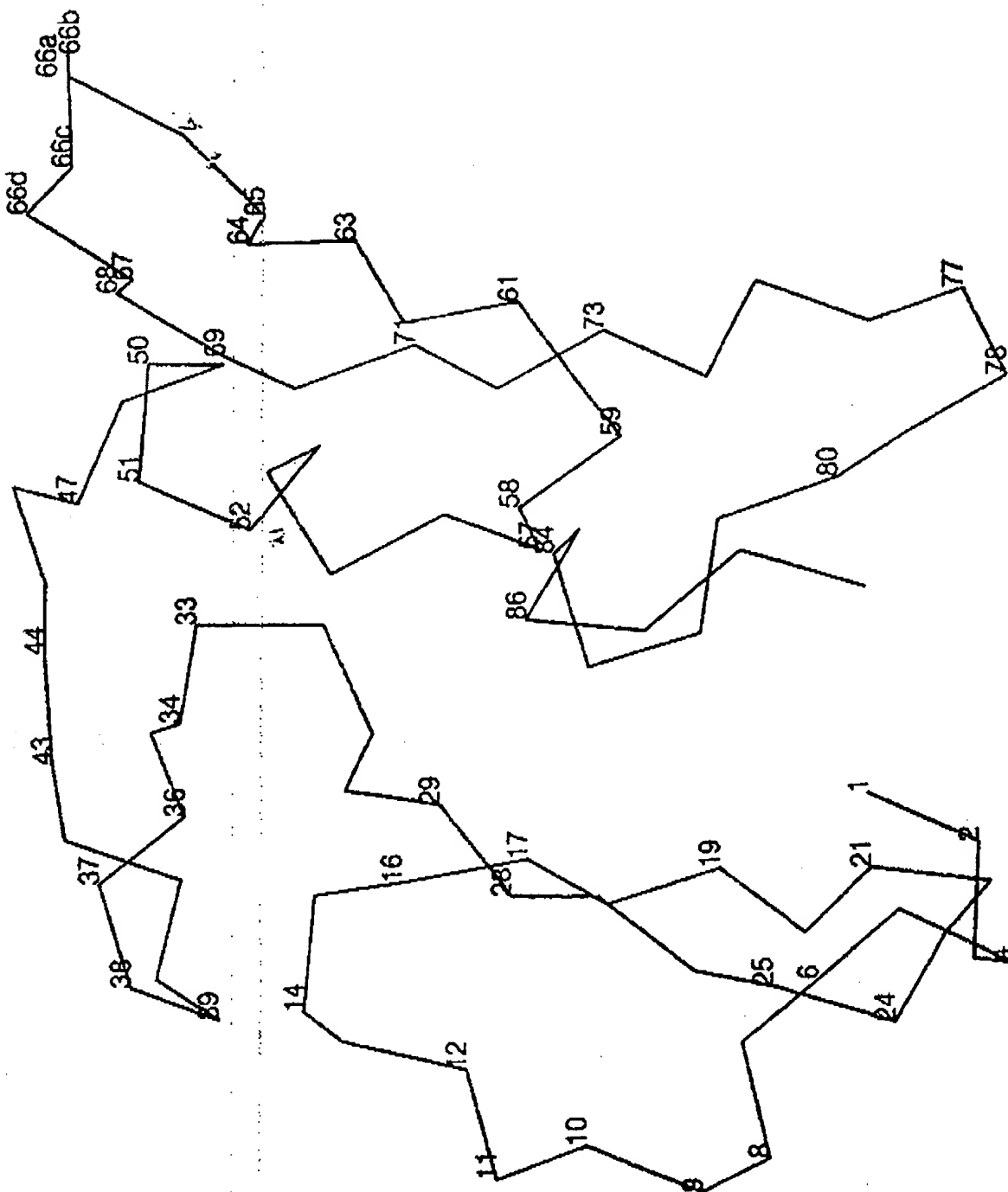
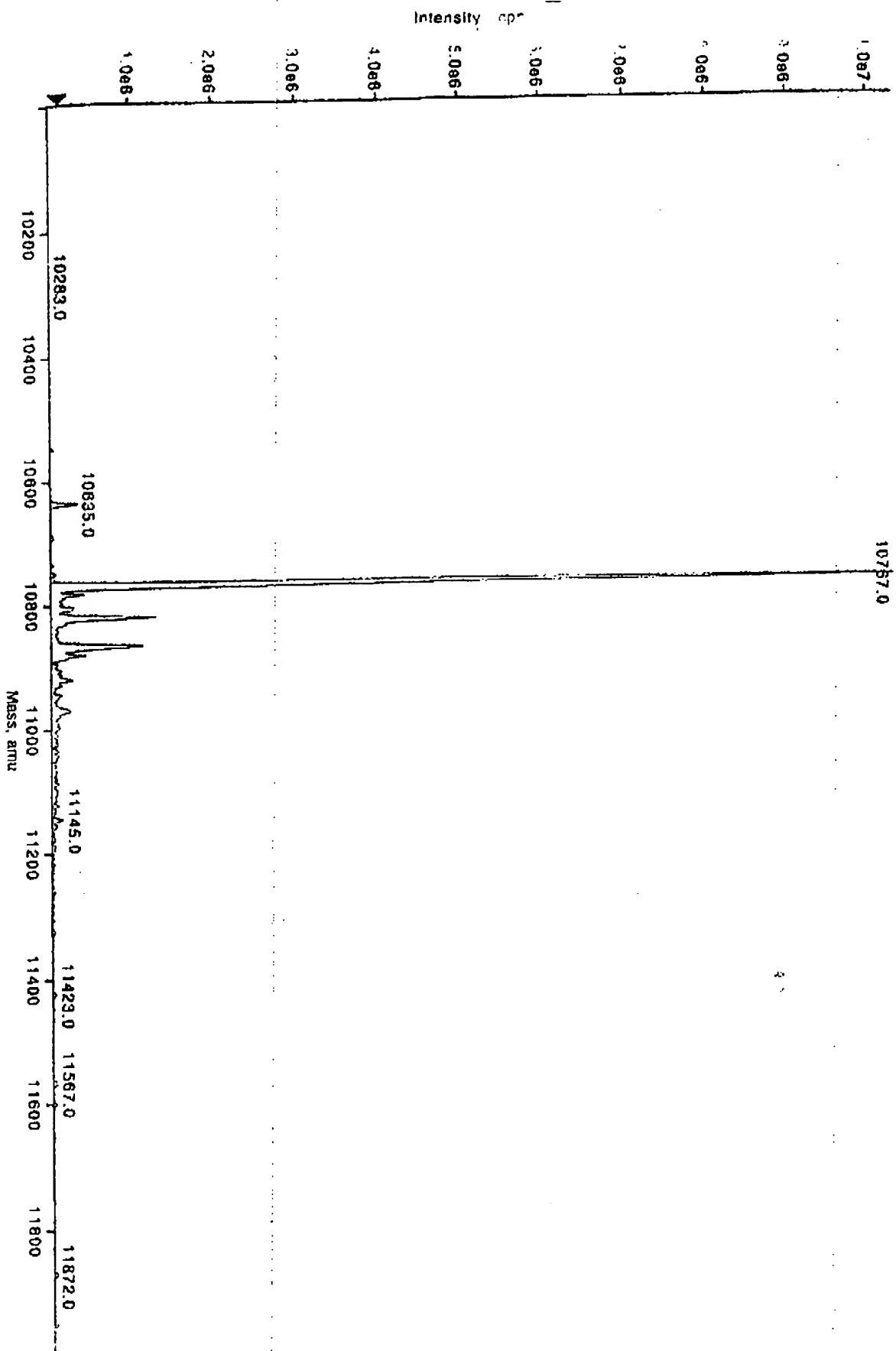


Figure 11C: Backbone of homology-modelled MSP1(19) of *P. falciparum* with positions of sequence differences with *P. cynomolgi*.

U

FIGURE 12A (RECONSTRUCTED MASS SPECTRA P. CYNOMOL.G1)

1.02e7 cps

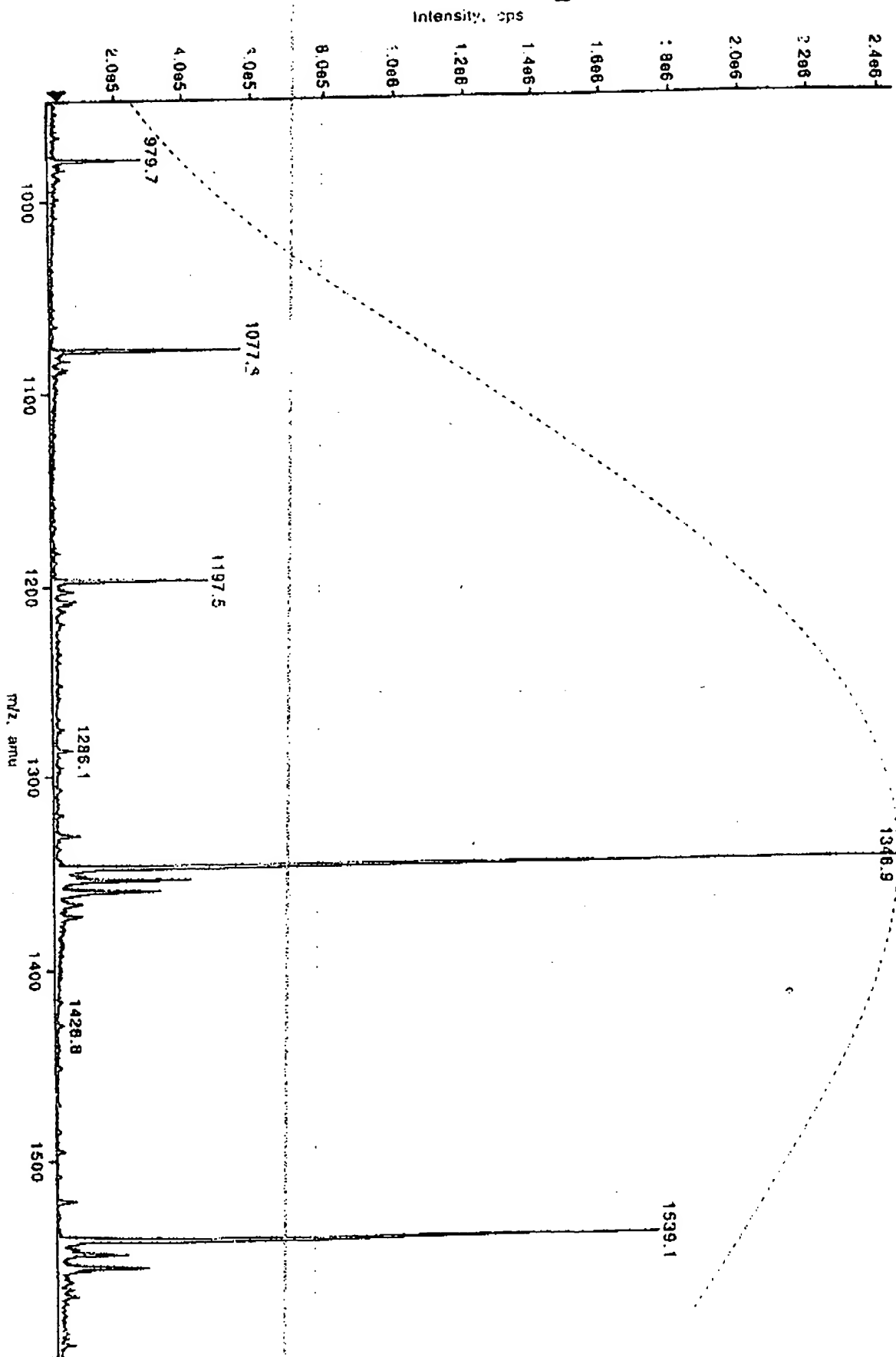


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09134333.001490

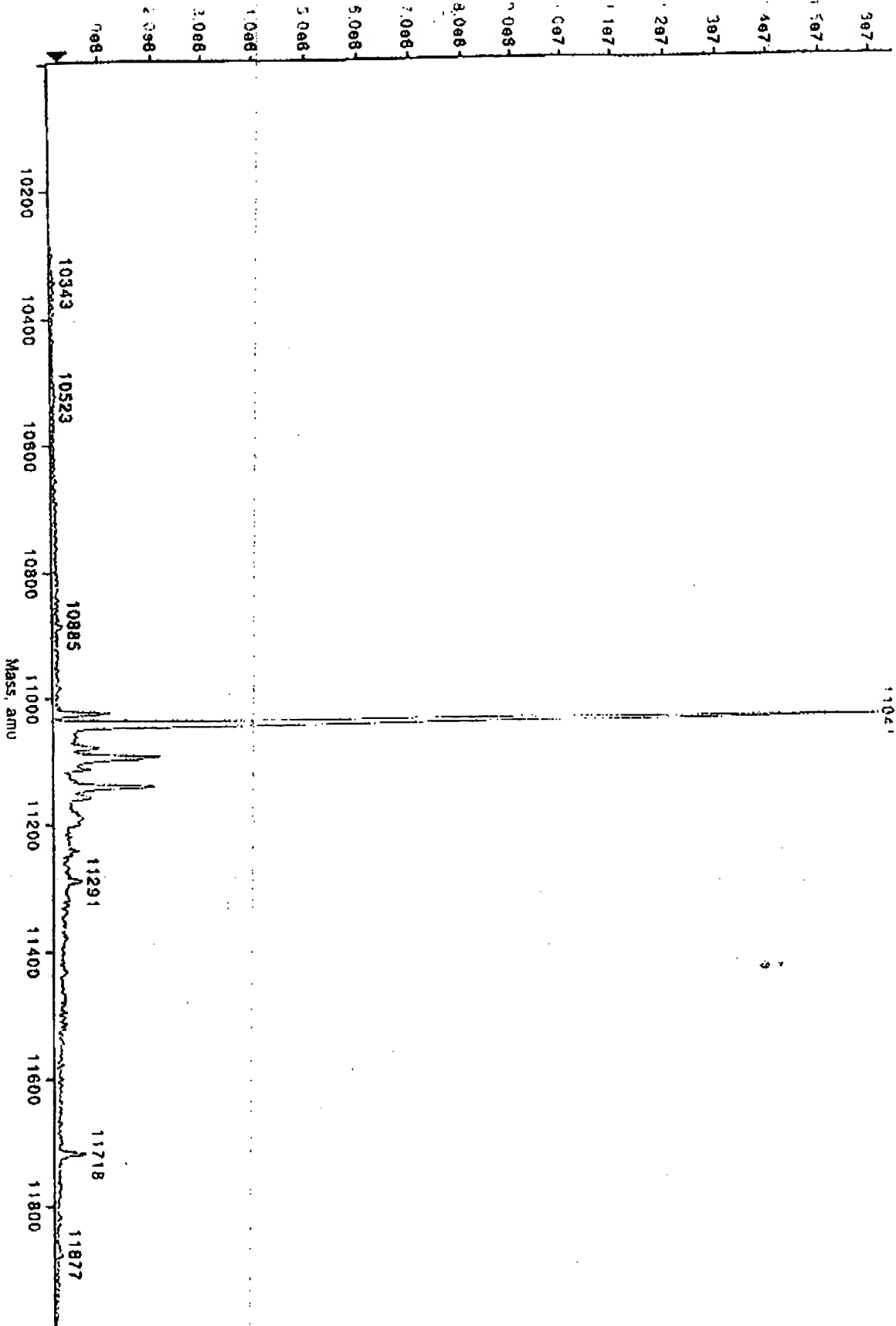
FIGURE 12B (m/z SPECTRA P. CYNOMOLGI)

2 cps



09134333.081492

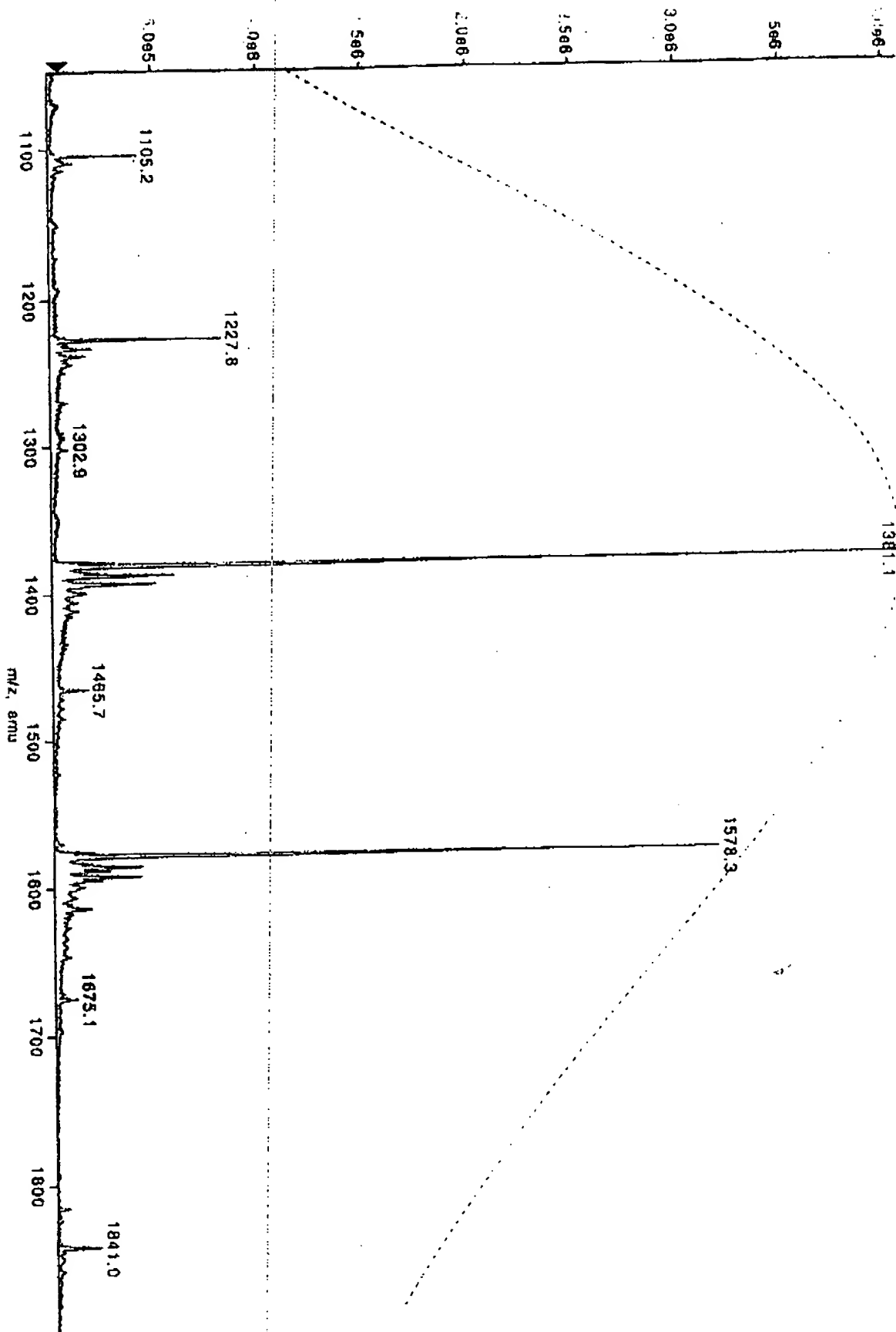
1656' 205

[illegible]

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Intensity, cps

FIGURE 12D (m/z SPECTRA P. FALCIPARUM)



4.07e6 cps

09134333.001492

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% Intensity

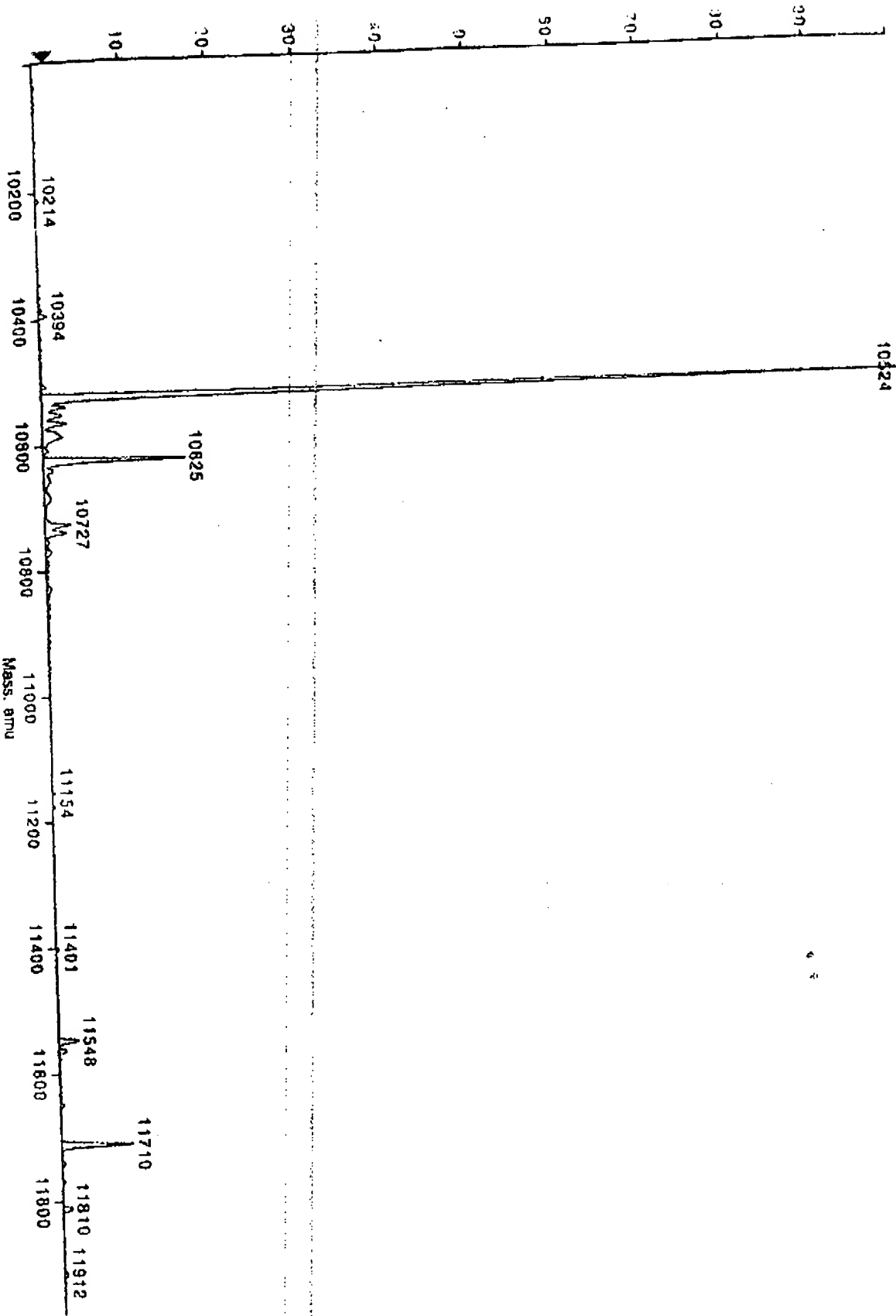


FIGURE 12E (RECONSTRUCTED MASS SPECTRA P. VIVAX)

1.97e7 cps

091344233 001493

FIGURE 12F (m/z SPECTRA P. VIVAX)

BioM. int. 1.3.1
 SLSV19HMinMSpot/23/7/98 (Inst: Inst Pasteur#CSMA/P355#Staley Longacre/SV19H prep 7/7/98 P. Vivax MSP1 p196H 100uL [10%HCOOH/MeOH 1/1] @ Int. Sp/Min 10n5m
 Period 1, Expt 1; Mass range: 1150.0 to 1800.0 by 0.1 amu; Dwell: 2.0 ms; Pulse: 2.0 ms
 Acq. Time: Jan 23 Jan 1998 at 10:50:11

+Q1 MCA (10 scans): from SLSV19HMinMSpot/23/7/98

3.71e6 cps

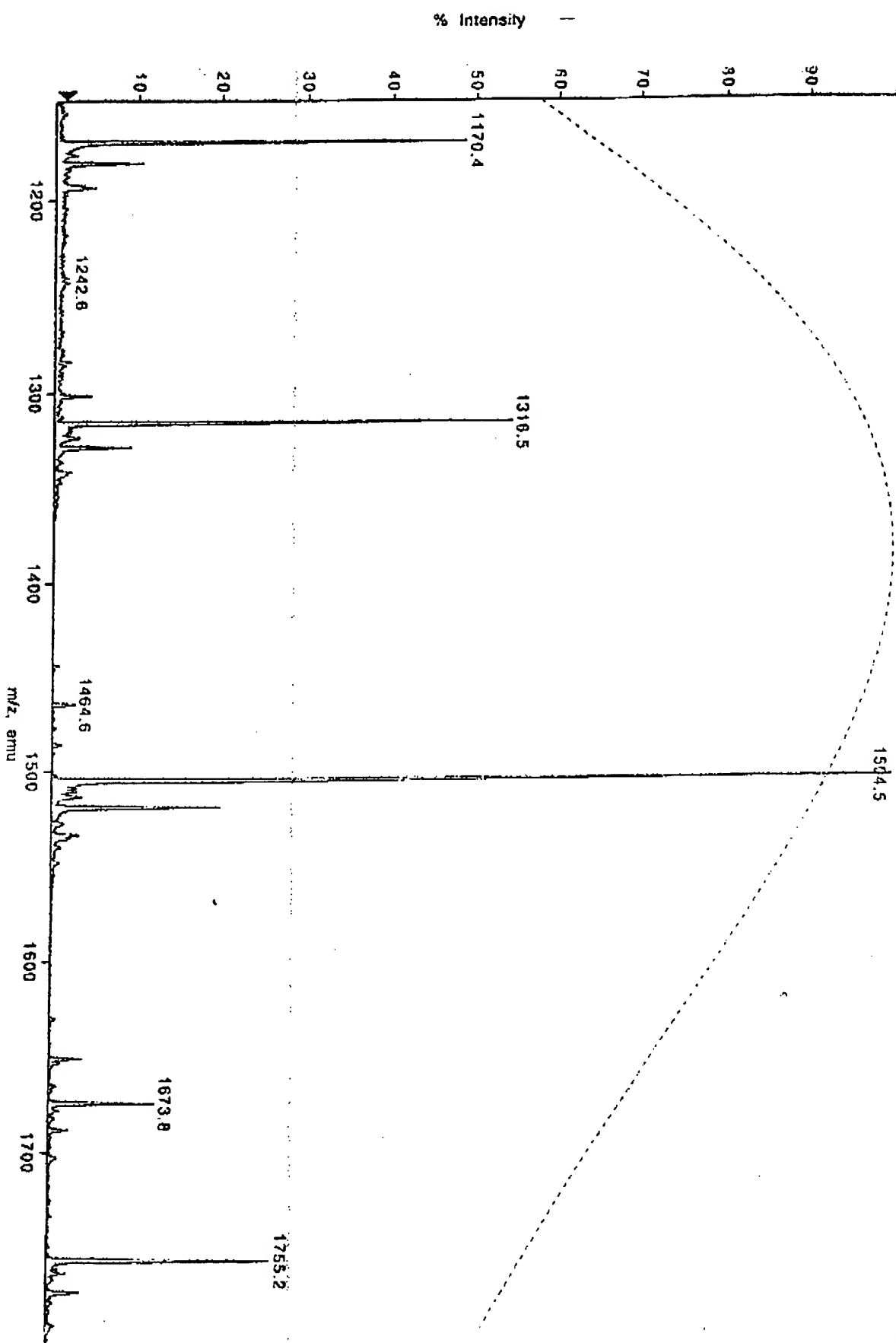
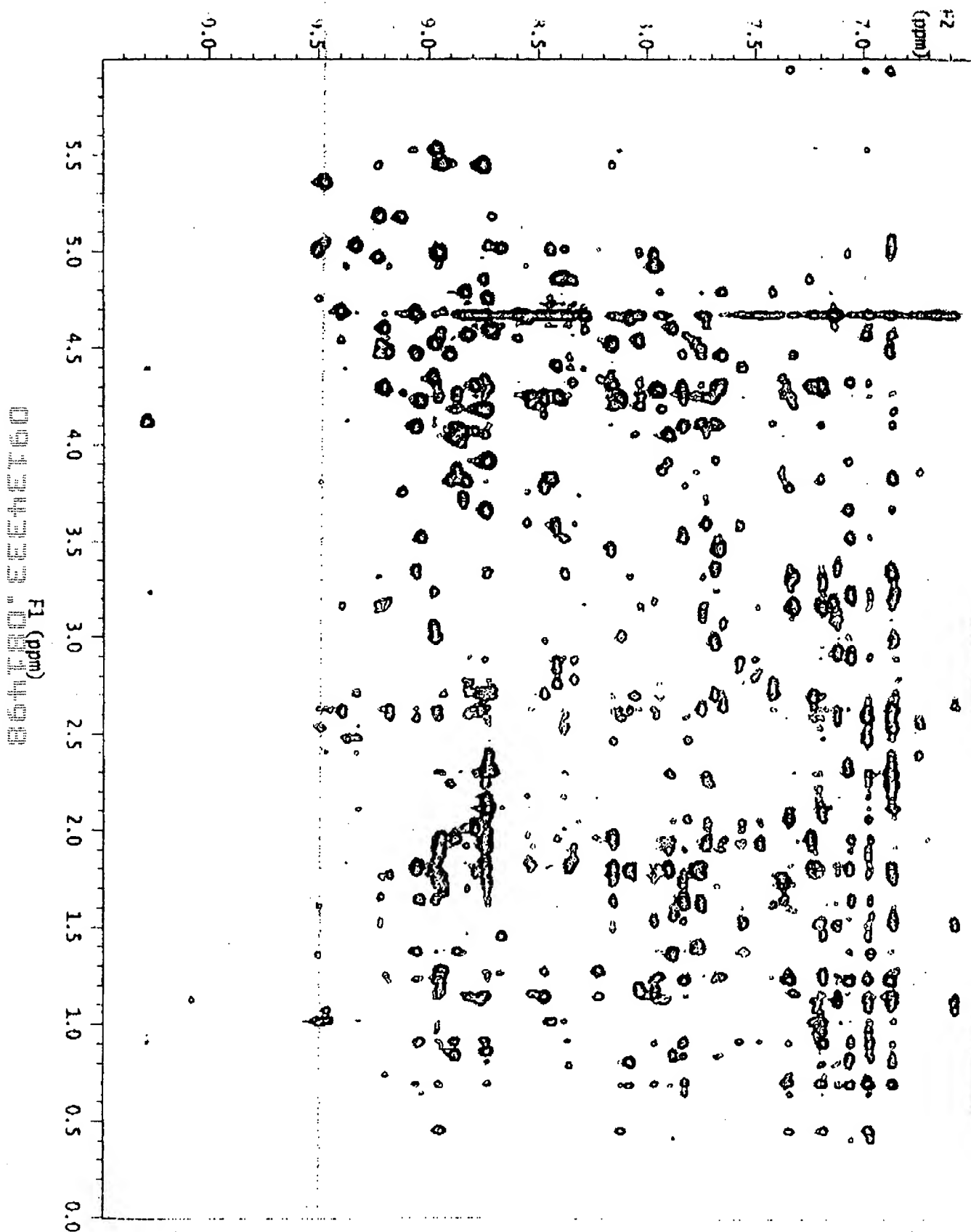


FIGURE 12.0a (NOEST CYNOMOLGID)



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FIGURE 12.0b (NCESY CYNOMOLGI)

09134333 081498

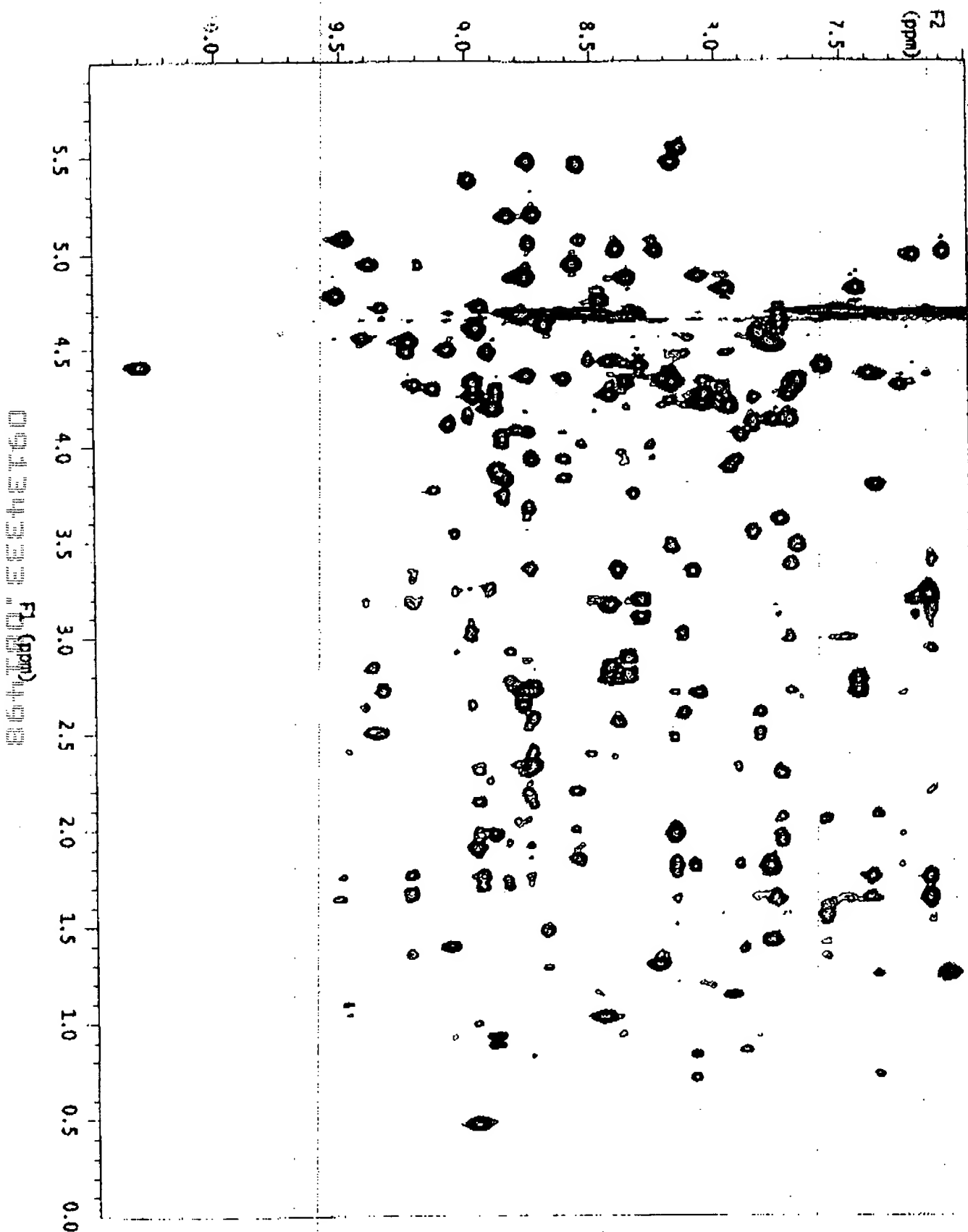


FIGURE 12.6C (TOCSY CYANOMOLG1)

FIGURE 12.1a (NOESY VIVAX)

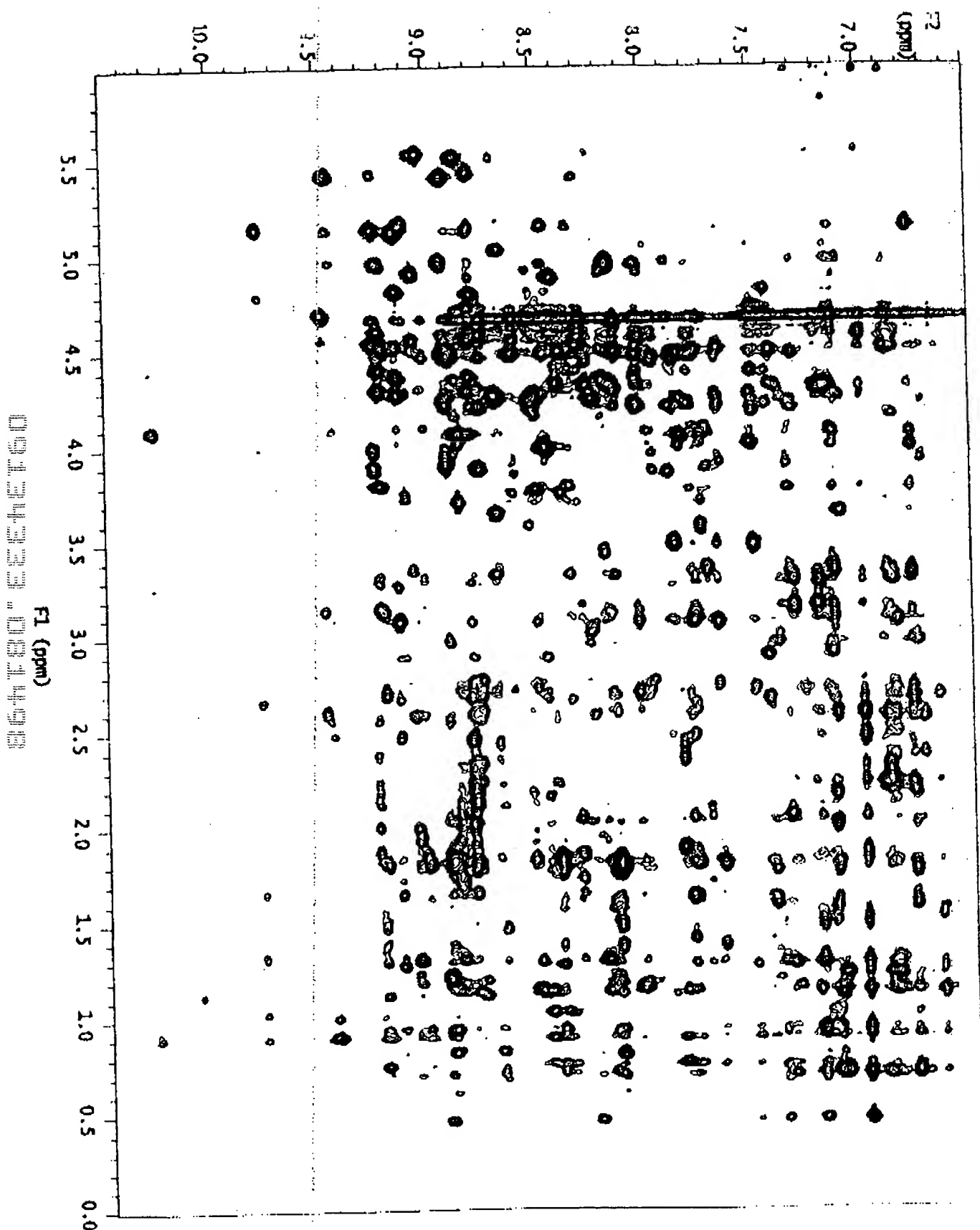


FIGURE 12.1b (NOESY VIVAX)

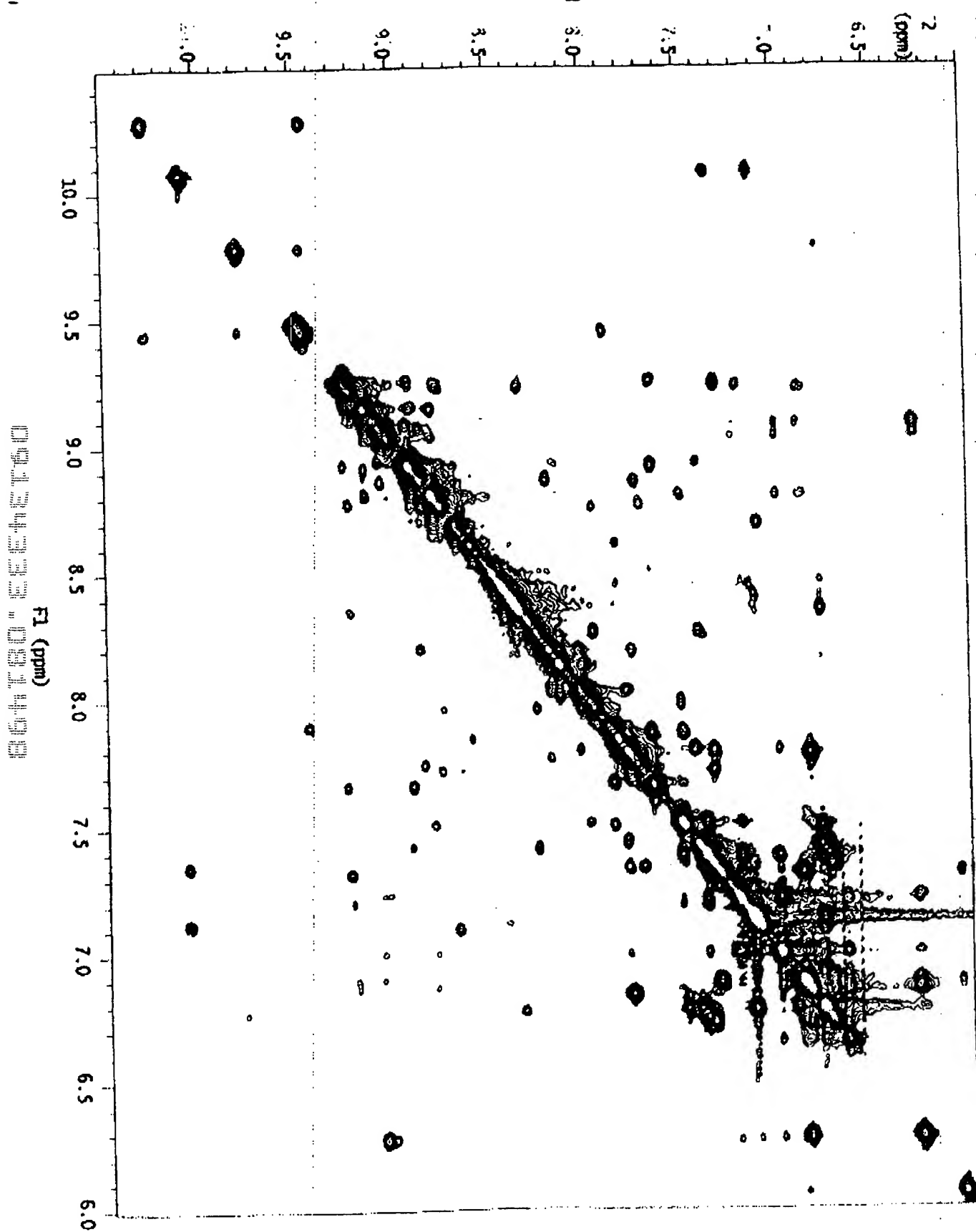


FIGURE 12.1c (TOCSY VIVAX)

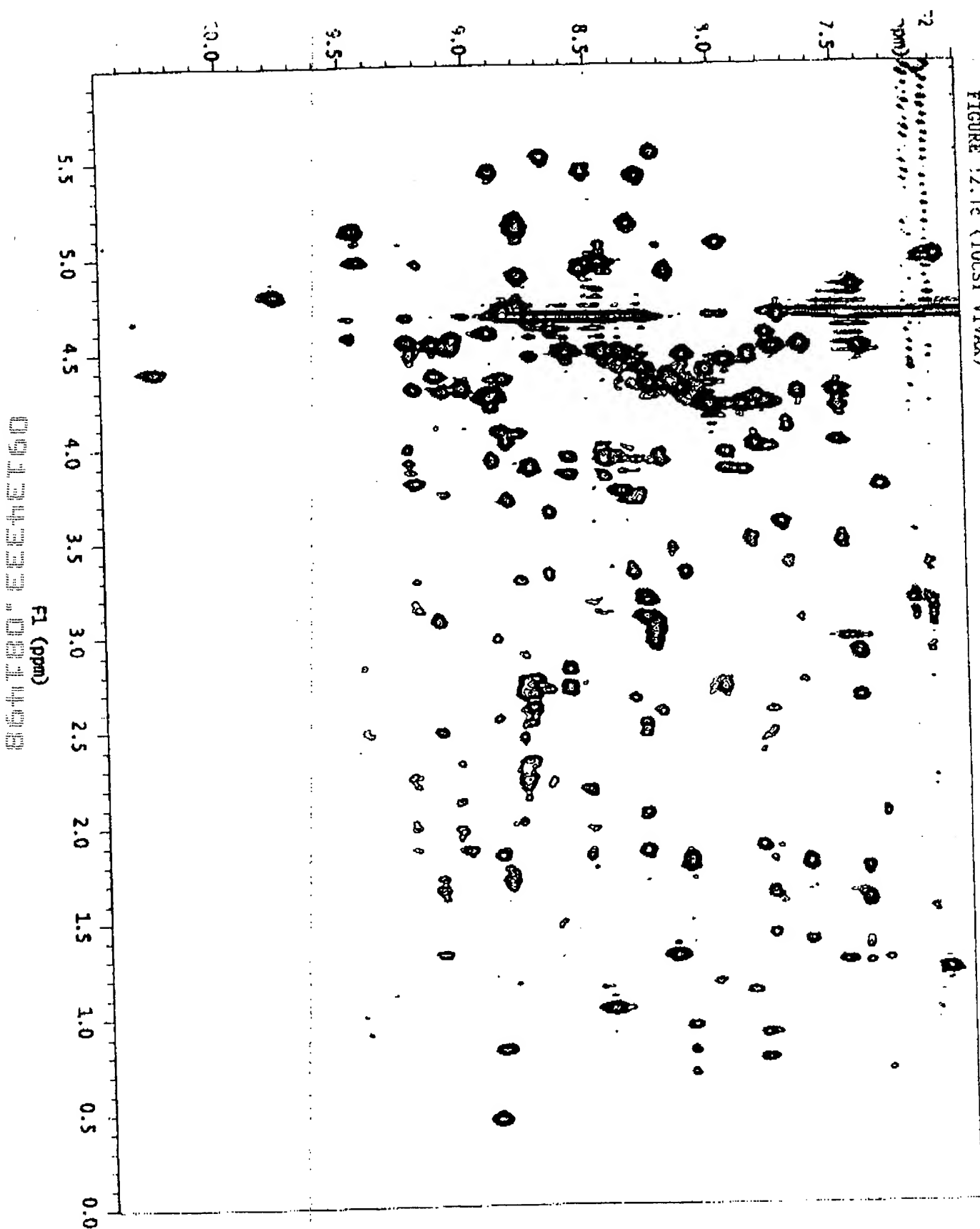
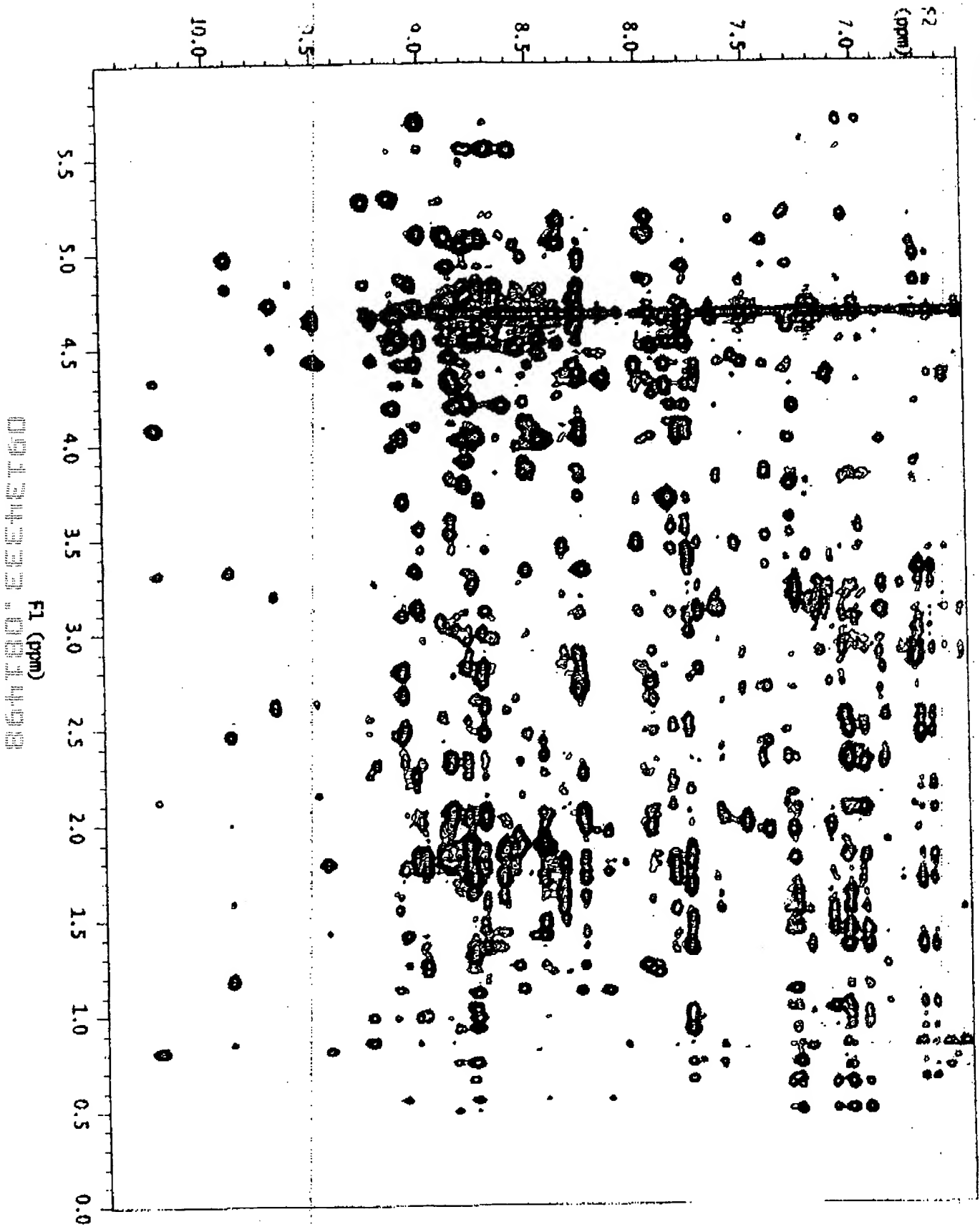
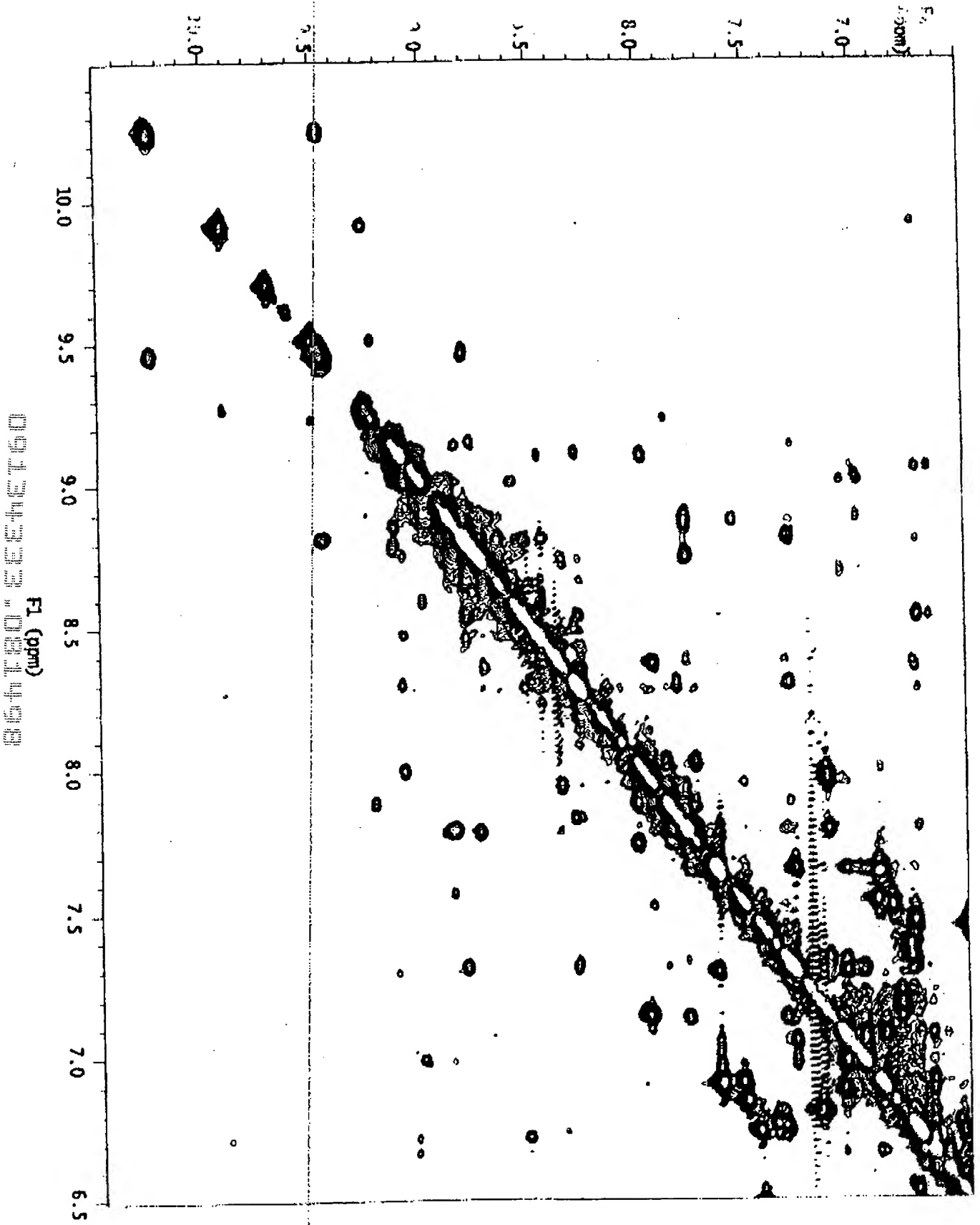


FIGURE 12.2a (NOESY FALCIPARUM)



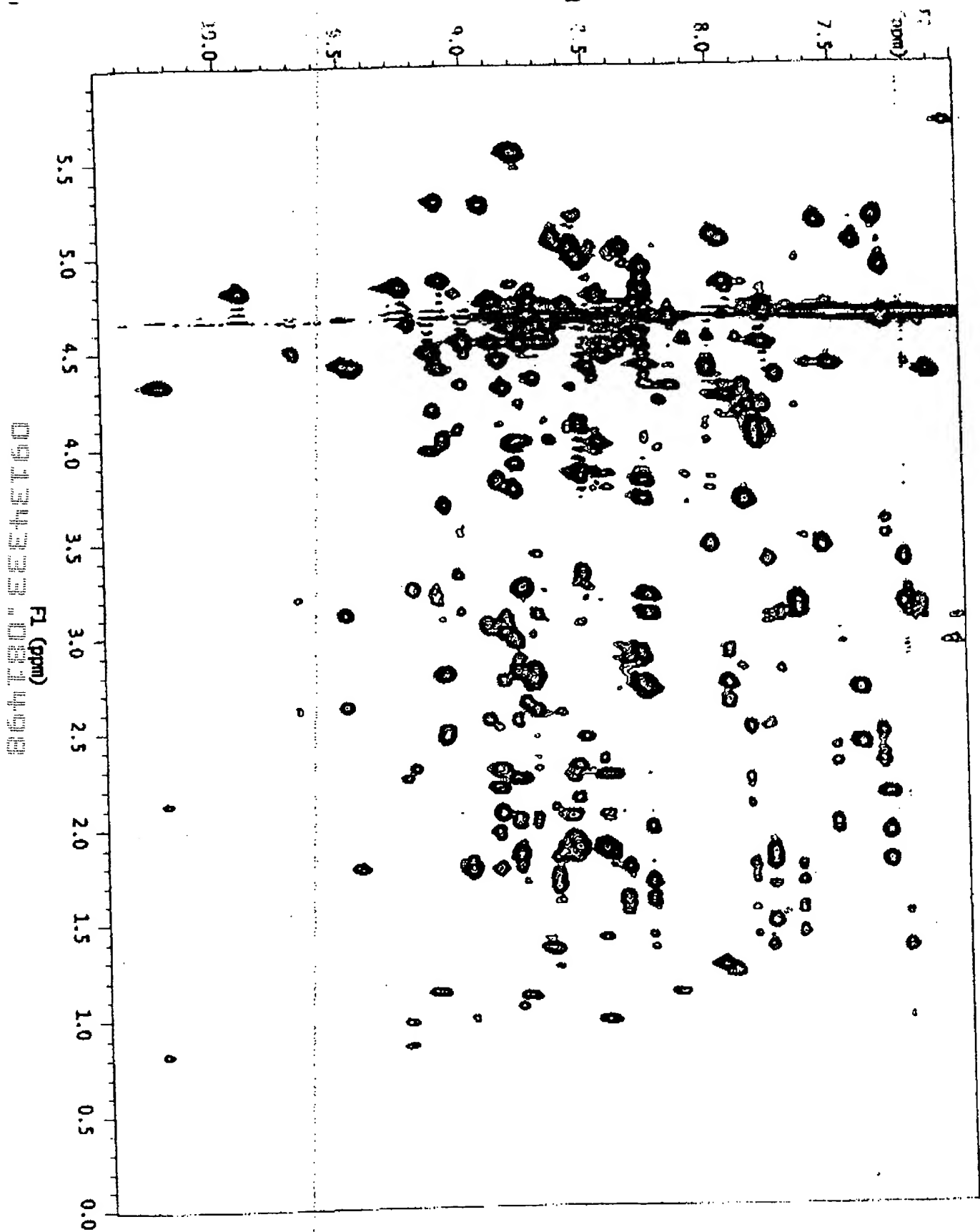
09134333.081498

FIGURE 12.2b (NOESY FALCIPARUM)

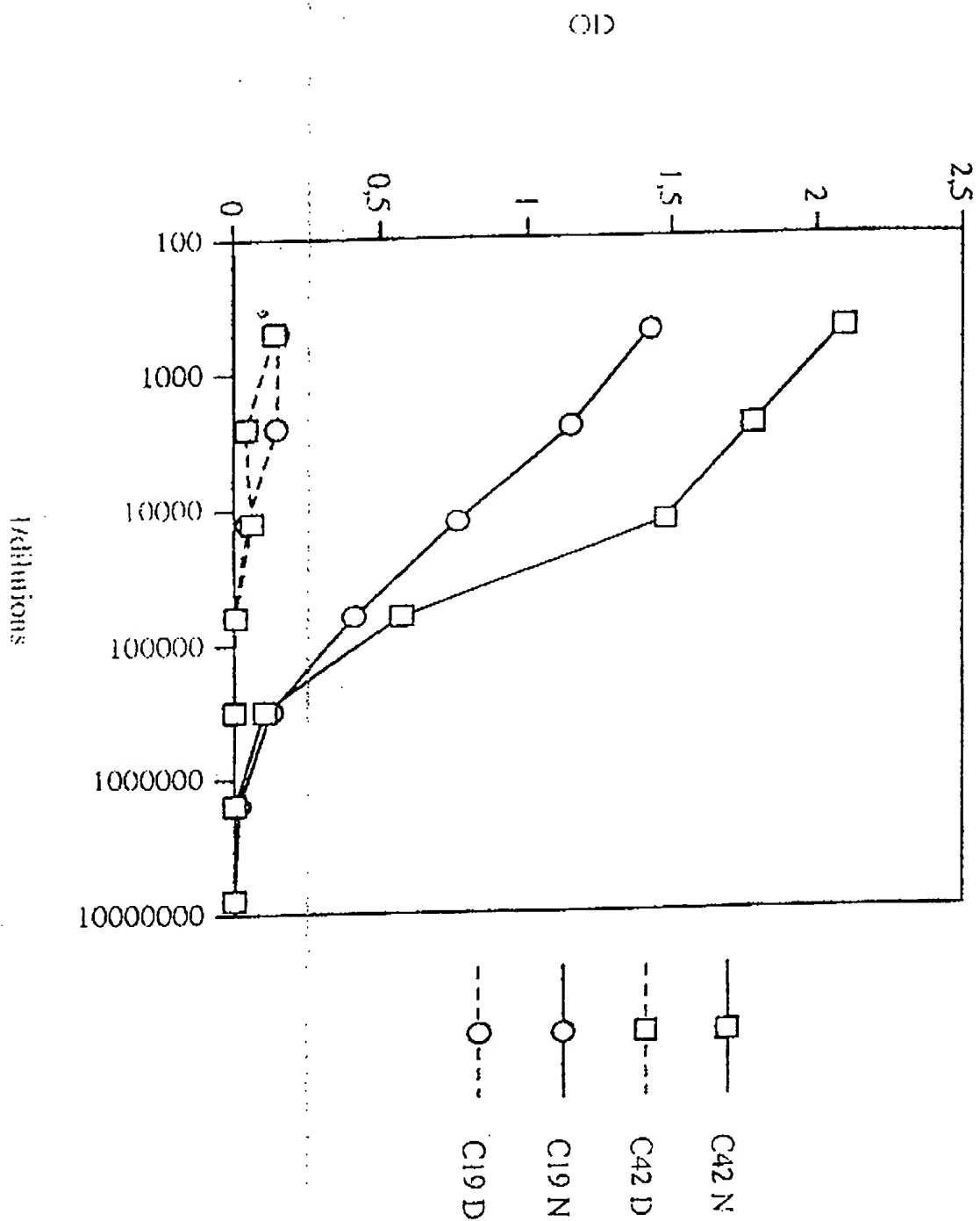


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FIGURE 12.2c (TCCSY FALCIPARUM)

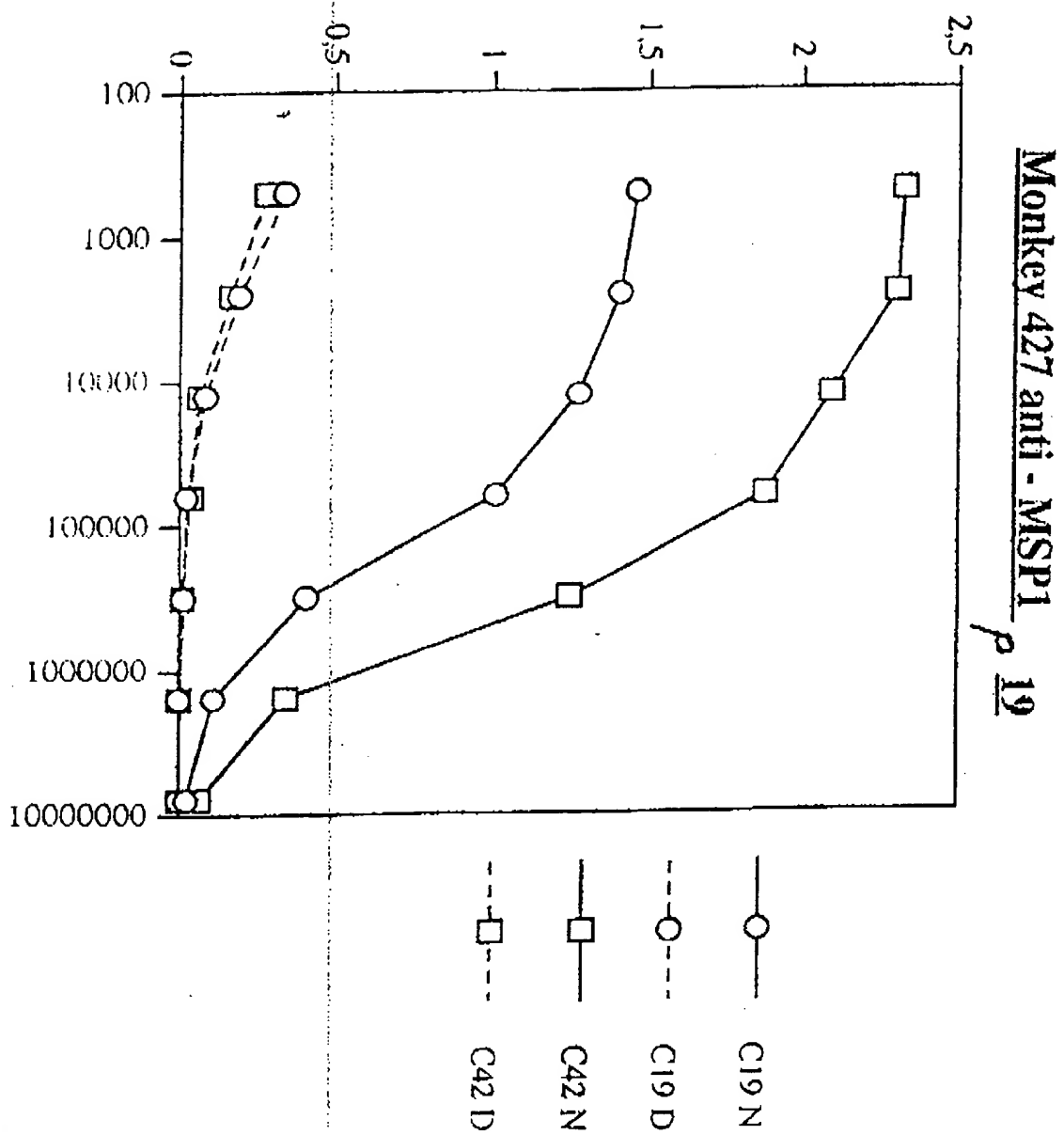


Monkey 426 anti-MSP1_{p19}



09134333 - 001490

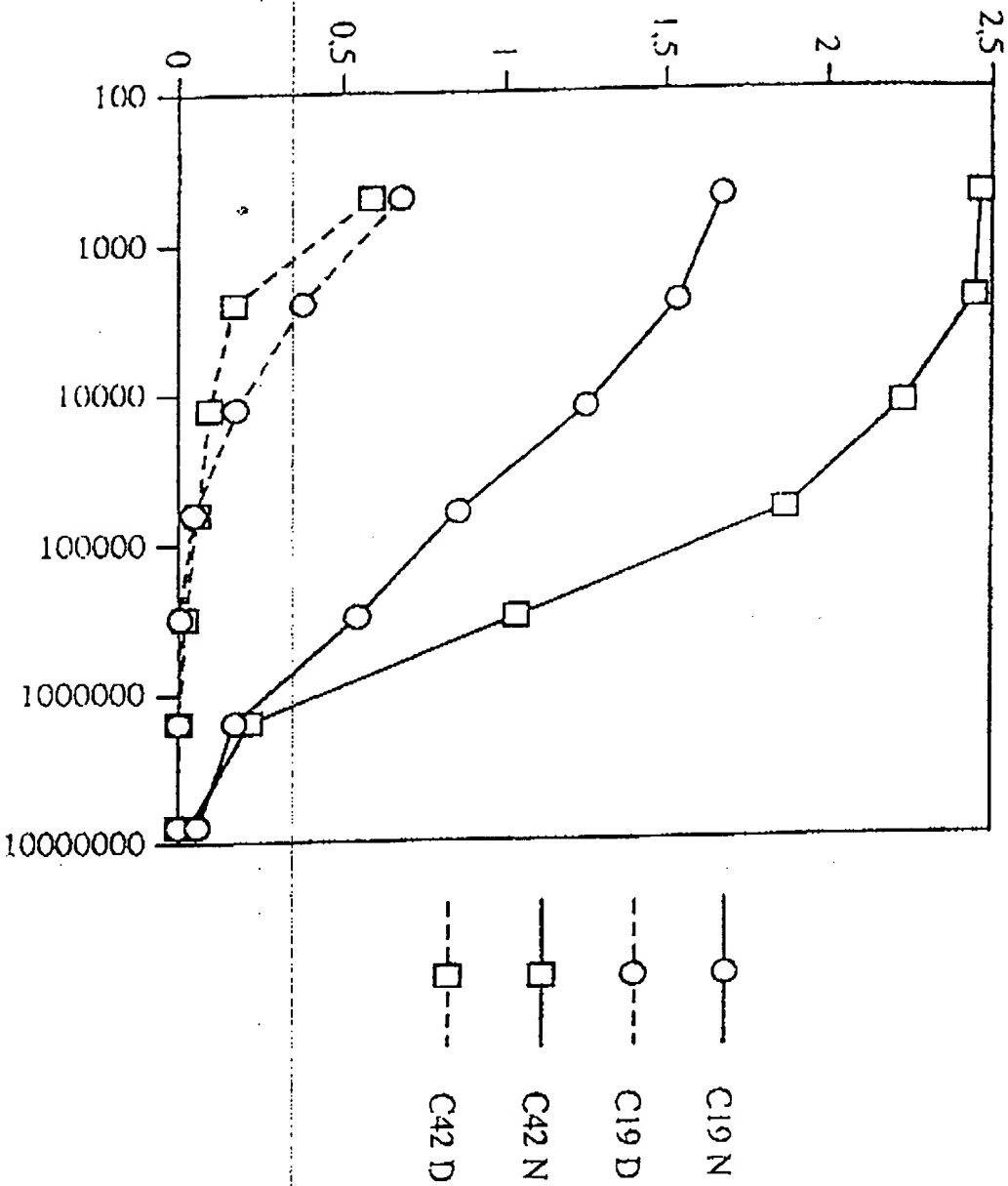
FIGURE 13A



Dilutions 100 1000 10000 100000 1000000 10000000

FIGURE 13B

Monkey 429 anti - MSP1
p 19



09134333 081498

FIGURE 13C

Monkey 428 anti - MSP1_{p42}

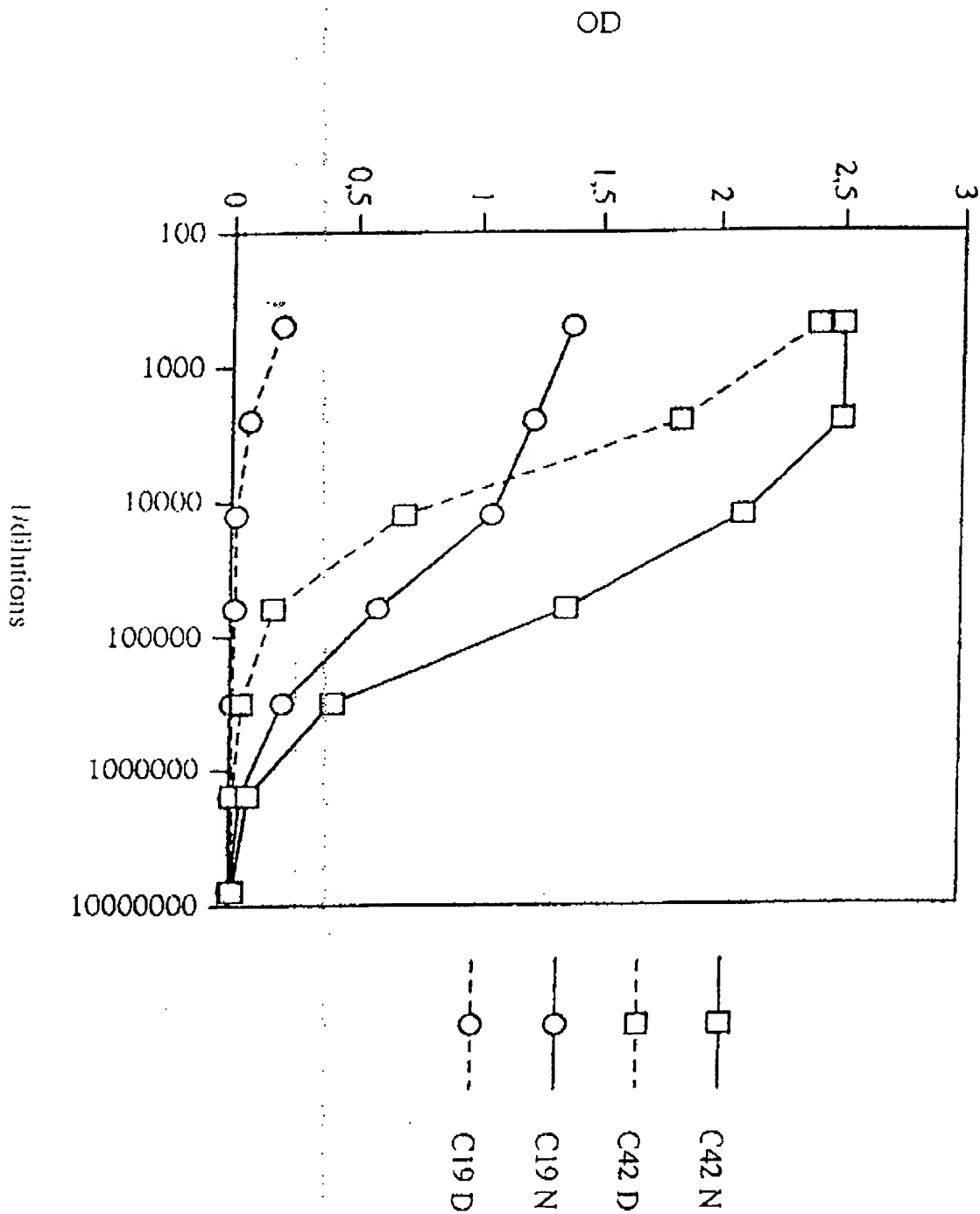
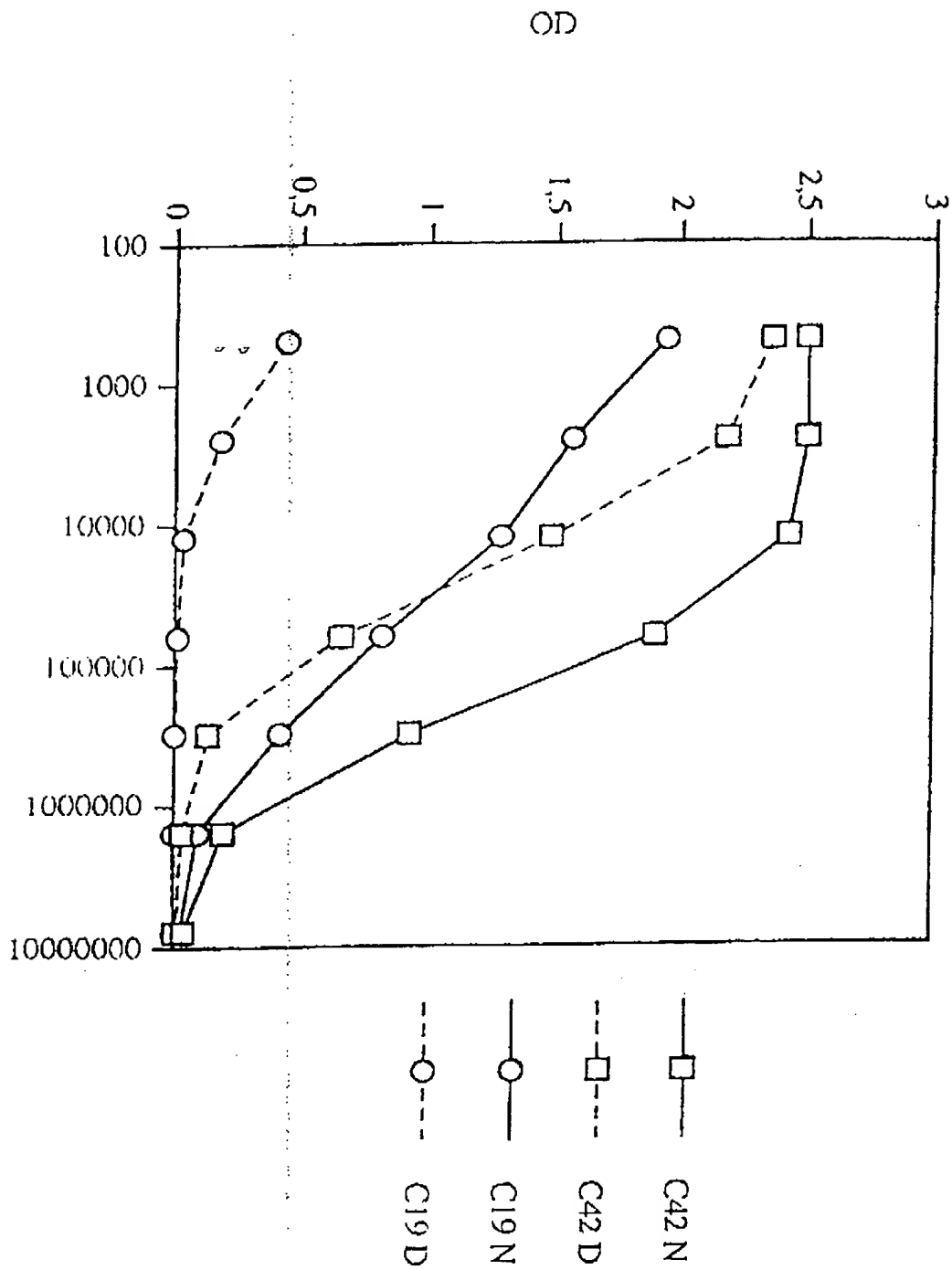


FIGURE 13D

Monkey 434 anti - MSP1 p 42



09134233.001498

FIGURE 13E

Monkey 435 anti - MSP1 p 42

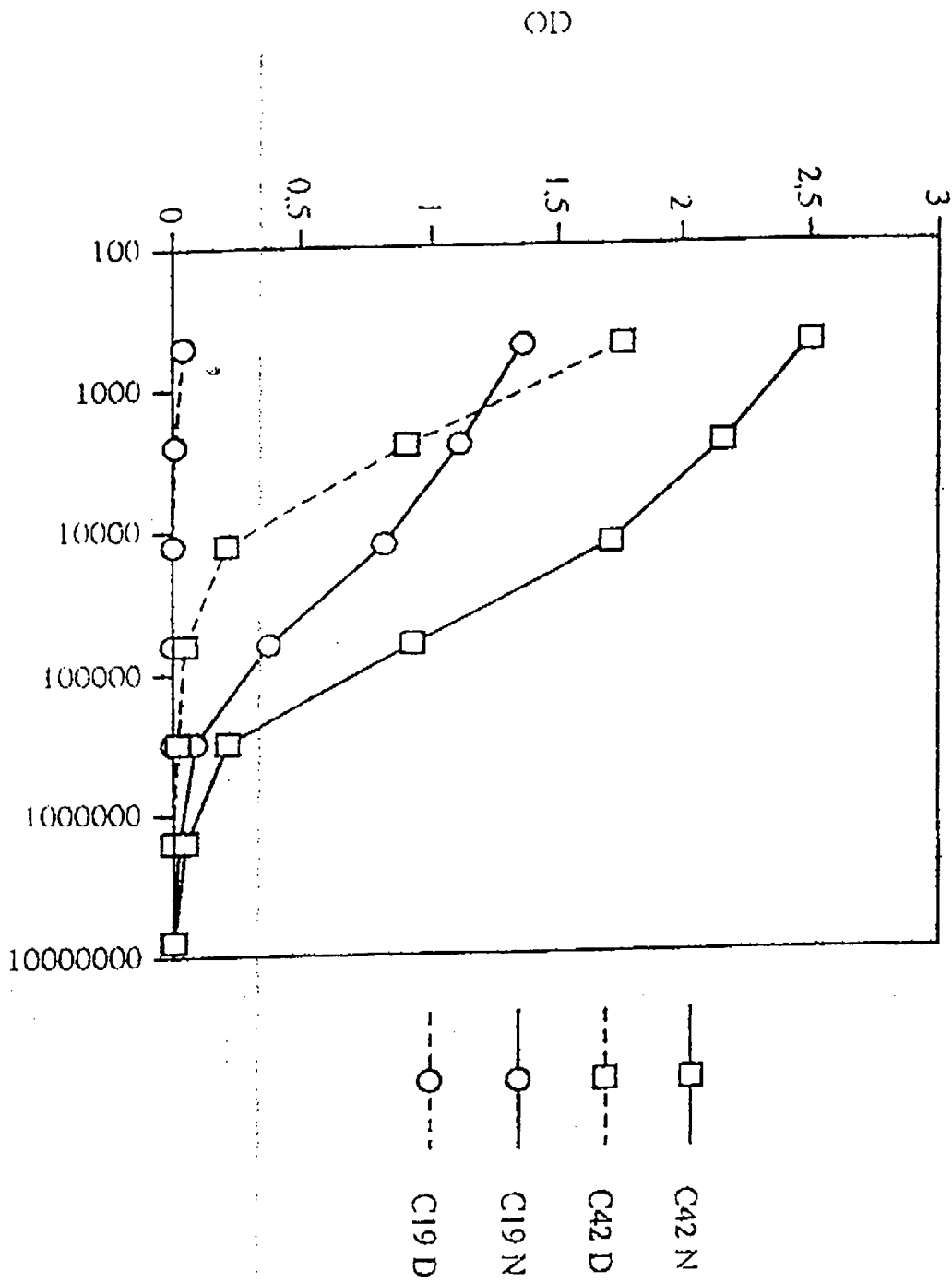
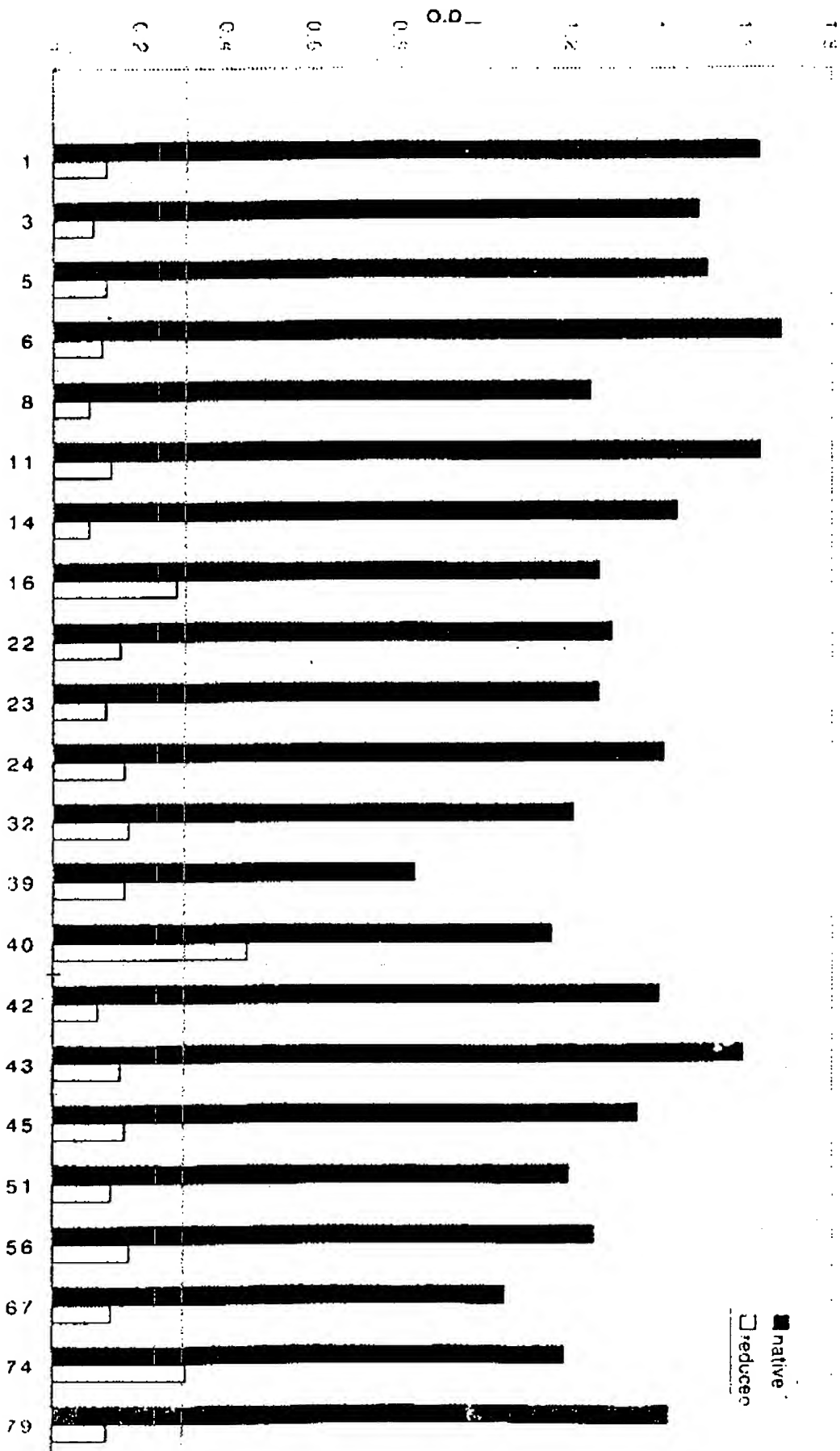


FIGURE 13F

Endemic human antisera reactivity with recombinant *Plasmodium vivax* MSP1₁₉
(immunoaffinity purified)

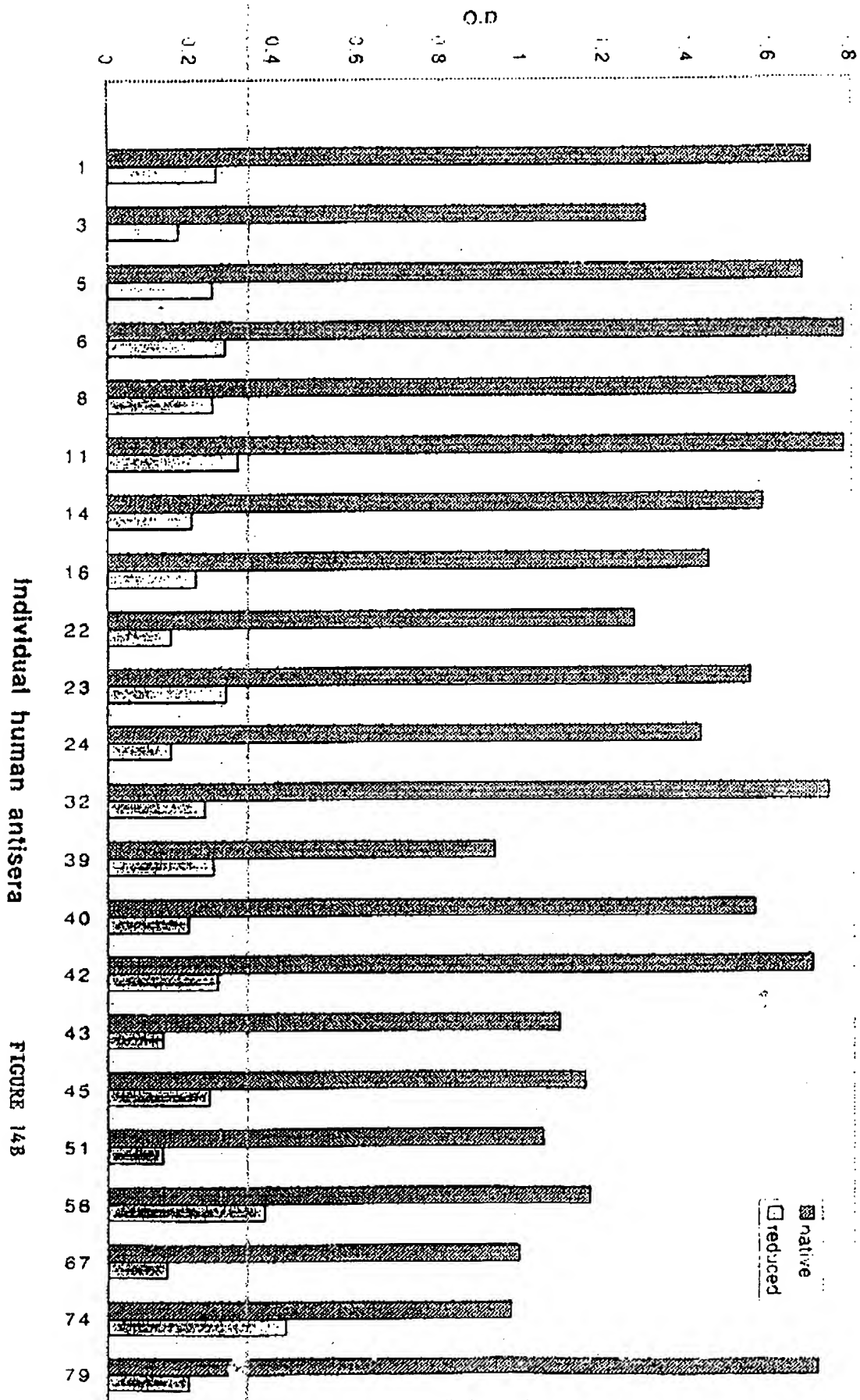


Individual human antisera

FIGURE 14A

09134333 081498

Endemic human antisera reactivity with recombinant *Plasmodium vivax* MSP1₁₉
(metalloaffinity purified)



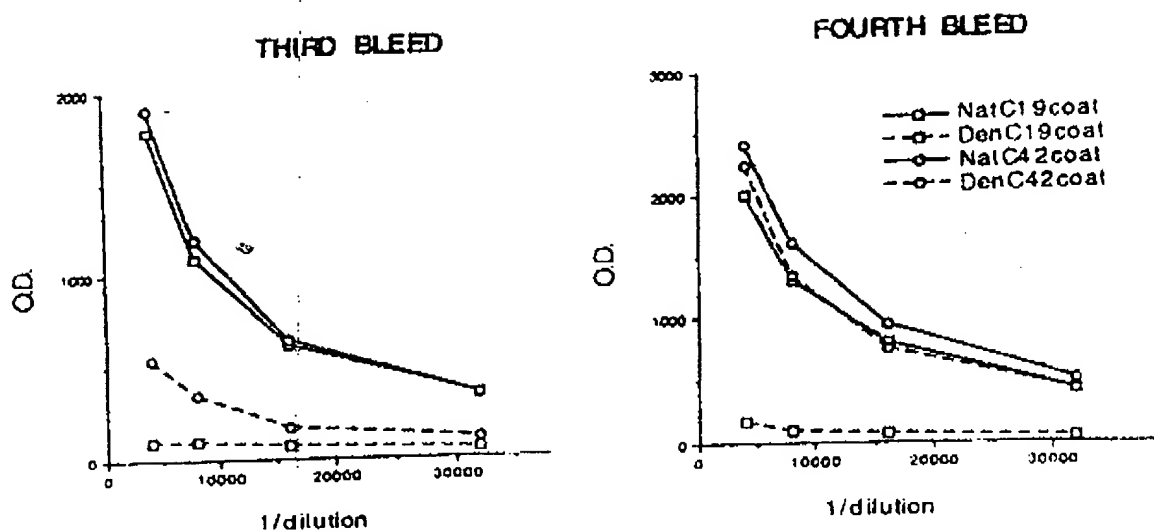
Individual human antisera

FIGURE 14B

09134333.081498

FIGURE 15

ANTI-C42 RESPONSE



ANTI-C19 RESPONSE

